



October 7, 2005

Secor International Inc.  
3017 Kilgore Road Suite 100  
Rancho Cordova, CA 95670

ATTN: MR. THOMAS POTTER  
  
SITE: CIRCLE K STORE 05426  
8510 GRAVENSTEIN HIGHWAY  
COTATI, CALIFORNIA  
  
RE: QUARTERLY MONITORING REPORT  
JULY THROUGH SEPTEMBER 2005

This Quarterly Monitoring Report for Circle K Store 05426 is being sent to you for your review and comment. If no comments are received by **October 14, 2005**, copies will be sent to you for distribution.

Please send all comments to me at [cherrera@trcsolutions.com](mailto:cherrera@trcsolutions.com). If you have any questions regarding this report, please call me at (949) 727-7345.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Christina Carrillo".

Christina Carrillo  
Technical Writer





October 7, 2005

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. THOMAS H. KOSEL

SITE: CIRCLE K STORE 05426  
8510 GRAVENSTEIN HIGHWAY  
COTATI, CALIFORNIA

RE: QUARTERLY MONITORING REPORT  
JULY THROUGH SEPTEMBER 2005

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for Circle K Store 05426, located at 8510 Gravenstein Highway, Cotati, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Anju Farfan".

Anju Farfan

QMS Operations Manager

CC: Mr. Thomas Potter, Secor International, Inc. (3 copies)

Enclosures  
20-0400/05426R08.QMS





**QUARTERLY MONITORING REPORT  
JULY THROUGH SEPTEMBER 2005**

Circle K Store 05426  
8510 Gravenstein Highway  
Cotati, California

Prepared For:

Mr. Thomas H. Kosel  
CONOCOPHILLIPS COMPANY  
76 Broadway  
Sacramento, California 95818

By:

A handwritten signature of "Dennis E. Jensen" is placed over a circular official seal. The seal is for a Certified Engineering Geologist in the State of California. The text on the seal includes: "CERTIFIED ENGINEERING GEOLOGIST", "DENNIS E. JENSEN", "No. EG 1034", "Exp. 4/09", and "STATE OF CALIFORNIA".

Senior Project Geologist, Irvine Operations  
October 7, 2005

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
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Coordinated Event Data	<i>Arco Service Station # 1341</i> Table 1: Groundwater Elevation and Analytical Data Table 2: Oxygenate Analytical Data Table 3: Historical Volatile Organic Compound Data
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPPH Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time MTBE Concentrations vs. Time
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statement	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**July 2005 through September 2005**  
**Circle K Store 05426**  
**8510 Gravenstein Highway**  
**Cotati, CA**

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Project Coordinator: **Thomas H. Kosei**  
Telephone: **916-588-7666**

Water Sampling Contractor: **TRC**  
Compiled by: **Christina Carrillo**

Date(s) of Gauging/Sampling Event: **08/22/05**

**Sample Points**

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Groundwater wells: **5** onsite, **1** offsite      Wells gauged: **6**      Wells sampled: **6**

Purging method: **Bailer/diaphragm pump**

Purge water disposal: **Onyx/Rodeo Unit 100**

Other Sample Points: **0**      Type: **n/a**

**Liquid Phase Hydrocarbons (LPH)**

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Wells with LPH: **0**      Maximum thickness (feet): **n/a**

LPH removal frequency: **n/a**      Method: **n/a**

Treatment or disposal of water/LPH: **n/a**

**Hydrogeologic Parameters**

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Depth to groundwater (below TOC):      Minimum: **9.5 feet**      Maximum: **11.5 feet**

Average groundwater elevation (relative to available local datum): **92.56 feet**

Average change in groundwater elevation since previous event: **-1.56 feet**

Interpreted groundwater gradient and flow direction:

Current event: **0.01 ft/ft, northeast**

Previous event: **0.01 ft/ft, northeast (05/10/05)**

**Selected Laboratory Results**

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Wells with detected **Benzene**: **3**      Wells above MCL (1.0 µg/l): **3**

Maximum reported benzene concentration: **190 µg/l (MW-2)**

Wells with **TPPH 8260B**      **4**      Maximum: **3,500 µg/l (MW-7)**

Wells with **MTBE**      **6**      Maximum: **230 µg/l (MW-7)**

**Notes:**

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# TABLES

## TABLE KEY

### STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
$\mu\text{g/l}$	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
$\text{mg/l}$	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND<	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

### ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

### NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (D<sub>p</sub> x LPH Thickness), where D<sub>p</sub> is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A “J” flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.

### REFERENCE

TRC began groundwater monitoring and sampling for Circle K Store 05426 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 22, 2005**

**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- water Elevation (feet)	Change in Elevation (feet)	TPH-G 8260B ( $\mu\text{g/l}$ )	TPPH 8260B ( $\mu\text{g/l}$ )	Benzene ( $\mu\text{g/l}$ )	Toluene ( $\mu\text{g/l}$ )	Ethyl- benzene ( $\mu\text{g/l}$ )	Total Xylenes ( $\mu\text{g/l}$ )	MTBE 8021B ( $\mu\text{g/l}$ )	MTBE 8260B ( $\mu\text{g/l}$ )	Comments
<b>MW-2</b>														
08/22/05	102.98	10.85	0.00	92.13	-1.72	--	1400	190	2.5	2.9	7.0	--	23	
<b>MW-6</b>														
08/22/05	104.25	11.45	0.00	92.80	-2.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	22	
<b>MW-7</b>														
08/22/05	103.82	10.94	0.00	92.88	-1.12	--	3500	36	ND<0.50	13	3.4	--	230	
<b>MW-8</b>														
08/22/05	103.20	11.50	0.00	91.70	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	60	
<b>MW-9</b>														
08/22/05	102.64	9.50	0.00	93.14	-1.83	--	850	ND<0.50	ND<0.50	0.63	ND<1.0	--	13	
<b>OW</b>														
08/22/05	103.78	11.05	0.00	92.73	-0.97	--	340	6.4	2.8	ND<0.50	ND<1.0	--	16	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G ( $\mu\text{g/l}$ )	TPPH 8260B ( $\mu\text{g/l}$ )	Benzene ( $\mu\text{g/l}$ )	Toluene ( $\mu\text{g/l}$ )	Ethyl-benzene ( $\mu\text{g/l}$ )	Total Xylenes ( $\mu\text{g/l}$ )	MTBE 8021B ( $\mu\text{g/l}$ )	MTBE 8260B ( $\mu\text{g/l}$ )	Comments
<b>MW-2</b>														
10/07/91	--	--	--	--	--	--	--	60	70	18	110	--	--	--
09/01/93	--	--	--	--	--	270	--	65	22	13	40	--	--	--
12/30/95	--	--	--	--	--	1300	--	450	6	20	25	--	--	--
01/29/96	102.99	5.50	--	97.49	--	--	--	--	--	--	--	--	--	--
12/18/96	102.99	8.01	--	94.98	-2.51	1700	--	410	48	73	180	25	--	--
04/17/97	102.99	12.78	--	90.21	-4.77	2100	--	400	34	95	180	ND	--	--
06/20/97	102.98	9.88	--	93.10	2.89	2300	--	550	9	82	110	ND	--	--
09/03/97	102.98	10.92	--	92.06	-1.04	1500	--	490	17	64	100	42	--	--
10/01/97	102.98	11.21	--	91.77	-0.29	--	--	--	--	--	--	--	--	--
12/02/97	102.98	8.11	--	94.87	3.10	2900	--	1100	41	150	270	ND	--	--
09/02/98	102.98	9.65	--	93.33	-1.54	1100	--	260	15.3	37.4	86.2	26.8	--	--
02/04/99	102.98	6.89	--	96.09	2.76	800	--	150	ND	48	25	130	--	--
05/04/99	102.98	7.14	--	95.84	-0.25	1200	--	140	ND	20	14	220	--	--
08/05/99	102.98	10.52	--	92.46	-3.38	720	--	160	ND	28	52	96	--	--
11/18/99	102.98	10.91	--	92.07	-0.39	990	--	330	9.9	46	100	33	--	--
02/18/00	102.98	7.48	--	95.50	3.43	850	--	150	2	11	17	25	--	--
05/18/00	102.98	9.66	--	93.32	-2.18	ND	--	ND	ND	ND	ND	ND	--	--
08/17/00	102.98	11.58	--	91.40	-1.92	4370	--	2000	ND	ND	32.2	ND	--	--
11/14/00	102.98	11.90	--	91.08	-0.32	2100	--	1100	9.1	67	100	46	--	--
02/20/01	102.98	9.25	0.00	93.73	2.65	ND	--	ND	ND	ND	ND	ND	--	--
05/04/01	102.98	10.58	0.00	92.40	-1.33	1100	--	630	3.5	20	27	38	--	--
08/20/01	102.98	12.25	0.00	90.73	-1.67	4100	--	2000	ND>20	28	47	ND<100	--	--
11/19/01	102.98	11.25	0.00	91.73	1.00	2400	--	890	ND<10	21	23	ND<100	--	--
02/19/02	102.98	9.61	0.00	93.37	1.64	160	--	31	ND<0.50	1.5	1.2	7.1	--	--

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**  
**Circle K Store 05426**

Date	TOC Sampled	Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethy- lbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-2 continued</b>															
05/23/02	102.98	10.67	--	92.31	-1.06	2700	--	970	ND<10	34	33	ND<100	--	--	
08/21/02	102.98	12.17	--	90.81	-1.50	3000	--	1400	13	18	57	89	--	--	
11/19/02	102.98	11.28	--	91.70	0.89	490	--	77	ND<5.0	ND<5.0	ND<5.0	13	--	--	
02/12/03	102.98	9.32	--	93.66	1.96	54	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.5	--	--	
05/14/03	102.98	9.28	--	93.70	0.04	ND<50	--	0.98	ND<0.50	ND<0.50	ND<0.50	10	--	--	
08/13/03	102.98	11.58	0.00	91.40	-2.30	--	680	160	4.1	5.7	19	--	30	--	
11/13/03	102.98	12.10	0.00	90.88	-0.52	--	1100	160	ND<2.5	3.0	ND<5.0	--	420	--	
02/12/04	102.98	9.64	0.00	93.34	2.46	--	860	280	ND<2.5	9.8	33	--	220	--	
05/14/04	102.98	10.93	0.00	92.05	-1.29	--	1700	350	3.3	7.9	47	--	390	--	
08/17/04	102.98	11.89	0.00	91.09	-0.96	--	710	77	1.3	3.5	6.4	--	88	--	
11/12/04	102.98	10.72	0.00	92.26	1.17	--	1100	200	1.5	14	27	--	92	--	
02/07/05	102.98	9.36	0.00	93.62	1.36	--	2500	390	4.3	17	100	--	65	--	
05/10/05	102.98	9.13	0.00	93.85	0.23	--	1600	320	3.7	9.4	32	--	38	--	
08/22/05	102.98	10.85	0.00	92.13	-1.72	--	1400	190	2.5	2.9	7.0	--	23	--	
<b>MW-6</b>															
01/29/96	104.26	6.74	--	97.52	--	300	--	ND	ND	ND	0.6	ND	--	--	
12/18/96	104.26	8.91	0.00	95.35	-2.17	290	--	9	0.53	ND	ND	46	--	--	
04/17/97	104.25	9.11	0.00	95.14	-0.21	340	--	ND	ND	ND	4	--	--	--	
06/20/97	104.25	10.89	--	93.36	-1.78	230	--	ND	ND	ND	ND	14	--	--	
09/03/97	104.25	12.27	--	91.98	-1.38	170	--	3.4	ND	ND	ND	13	--	--	
10/01/97	104.25	12.64	--	91.61	-0.37	--	--	--	--	--	--	--	--	--	
12/02/97	104.25	8.84	--	95.41	3.80	230	--	5.5	0.96	ND	ND	160	--	--	
09/02/98	104.25	10.87	--	93.38	-2.03	375	--	ND	ND	ND	ND	32.4	--	--	
02/04/99	104.25	7.88	--	96.37	2.99	220	--	3	0.52	ND	ND	83	--	--	

**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**  
**Circle K Store 05426**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8260B (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-6 continued</b>														
05/04/99	104.25	7.96	--	96.29	-0.08	180	--	3.4	0.78	ND	2.6	53	--	
08/05/99	104.25	11.47	--	92.78	-3.51	61	--	5.2	0.77	ND	1.7	29	--	
11/18/99	104.25	12.40	--	91.85	-0.93	350	--	7.2	0.54	ND	ND	28	--	
02/18/00	104.25	7.57	--	96.68	4.83	110	--	6.8	ND	ND	ND	29	--	
05/18/00	104.25	10.35	--	93.90	-2.78	136	--	ND	ND	ND	ND	9.35	--	
08/17/00	104.25	12.51	--	91.74	-2.16	ND	--	ND	ND	ND	ND	10.3	--	
11/14/00	104.25	12.96	--	91.29	-0.45	210	--	3.4	ND	ND	0.61	91	--	
02/20/01	104.25	9.11	0.00	95.14	3.85	237	--	1.49	ND	ND	ND	24.9	--	
05/04/01	104.25	11.34	0.00	92.91	-2.23	210	--	18	ND	ND	0.75	24	--	
08/20/01	104.25	12.38	0.00	91.87	-1.04	87	--	1.0	0.57	ND<0.50	2.0	19	--	
11/19/01	104.25	11.88	0.00	92.37	0.50	87	--	10	ND<0.50	ND<0.50	ND<0.50	21	--	
02/19/02	104.25	9.81	0.00	94.44	2.07	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
05/23/02	104.25	11.31	--	92.94	-1.50	ND<50	--	0.62	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
08/21/02	104.25	13.39	--	90.86	-2.08	ND<50	--	5.7	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
11/19/02	104.25	11.67	--	92.58	1.72	ND<1000	--	ND<10	ND<10	ND<10	ND<10	15	--	
02/12/03	104.25	9.81	--	94.44	1.86	80	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.6	--	
05/14/03	104.25	9.37	--	94.88	0.44	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
08/13/03	104.25	12.51	0.00	91.74	-3.14	--	91	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.9	
11/13/03	104.25	13.34	0.00	90.91	-0.83	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	68	
02/12/04	104.25	10.07	0.00	94.18	3.27	--	170	0.53	2.8	0.73	3.9	--	26	
05/14/04	104.25	11.62	0.00	92.63	-1.55	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	16	
08/17/04	104.25	12.88	0.00	91.37	-1.26	--	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	22	
11/12/04	104.25	10.98	0.00	93.27	1.90	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	54	
02/07/05	104.25	9.60	0.00	94.65	1.38	--	140	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**  
**Circle K Store 05426**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8260B (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-6 continued</b>														
05/10/05	104.25	9.29	0.00	94.96	0.31	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	29
08/22/05	104.25	11.45	0.00	92.80	-2.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	22
<b>MW-7</b>														
01/29/96	103.83	6.71	--	97.12	--	8900	--	1800	ND	700	450	1300	--	
12/18/96	103.83	8.88	--	94.95	-2.17	8900	--	1800	22	370	240	6400	--	
04/17/97	103.83	9.06	0.00	94.77	-0.18	ND	--	1700	ND	590	570	25000	29000	
D 04/17/97	103.83	9.06	0.00	94.77	-0.18	ND	--	1800	ND	640	610	28000	--	
06/20/97	103.82	10.56	--	93.26	-1.51	14000	--	2400	ND	440	440	25000	--	
D 06/20/97	103.82	10.56	--	93.26	-1.51	ND	--	2500	ND	490	490	23000	--	
09/03/97	103.82	11.68	--	92.14	-1.12	12000	--	4000	ND	510	260	12000	--	
10/01/97	103.82	11.96	--	91.86	-0.28	--	--	--	--	--	--	--	--	
12/02/97	103.82	8.82	--	95.00	3.14	8900	--	2500	ND	500	320	14000	--	
09/02/98	103.82	10.41	--	93.41	-1.59	ND	--	ND	ND	ND	ND	ND	--	
02/04/99	103.82	7.86	--	95.96	2.55	13000	--	1500	190	710	660	28000	--	
05/04/99	103.82	8.28	--	95.54	-0.42	14000	--	1600	ND	1000	1200	22000	--	
08/05/99	103.82	11.16	--	92.66	-2.88	7800	--	1200	ND	720	610	14000	--	
11/18/99	103.82	11.72	--	92.10	-0.56	8300	--	1400	ND	570	390	12000	--	
02/18/00	103.82	7.68	--	96.14	4.04	7200	--	890	ND	680	590	10000	--	
05/18/00	103.82	10.13	--	93.69	-2.45	5250	--	386	ND	436	239	4710	3950	
08/17/00	103.82	12.07	--	91.75	-1.94	4290	--	309	ND	124	38	3050	--	
11/14/00	103.82	12.59	--	91.23	-0.52	6500	--	690	ND	550	210	3500	--	
02/20/01	103.82	9.64	0.00	94.18	2.95	5760	--	350	ND	190	74	3410	--	
05/04/01	103.82	10.93	0.00	92.89	-1.29	4700	--	420	34	510	310	3000	--	
08/20/01	103.82	12.74	0.00	91.08	-1.81	4500	--	320	ND<5.0	70	31	2400	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**  
**Circle K Store 05426**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8260B (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylenbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-7 continued</b>														
11/19/01	103.82	11.66	0.00	92.16	1.08	4700	--	360	ND<5.0	120	43	2800	--	
02/19/02	103.82	9.51	0.00	94.31	2.15	4700	--	220	ND<5.0	320	170	1600	--	
05/23/02	103.82	10.74	--	93.08	-1.23	3000	--	140	ND<5.0	37	9.7	1000	--	
08/21/02	103.82	12.82	--	91.00	-2.08	3100	--	260	ND<10	210	65	950	--	
11/19/02	103.82	11.15	--	92.67	1.67	4700	--	93	ND<50	89	41	2100	--	
02/12/03	103.82	9.11	--	94.71	2.04	5500	--	170	ND<50	280	160	2900	--	
05/14/03	103.82	9.03	--	94.79	0.08	3600	--	98	ND<5.0	76	26	610	--	
08/13/03	103.82	12.05	0.00	91.77	-3.02	--	3300	72	ND<10	17	ND<20	--	970	
11/13/03	103.82	12.50	0.00	91.32	-0.45	--	4200	140	ND<5.0	84	23	--	550	
02/12/04	103.82	10.26	0.00	93.56	2.24	--	4500	89	ND<5.0	200	70	--	580	
05/14/04	103.82	11.12	0.00	92.70	-0.86	--	5800	77	ND<5.0	90	24	--	700	
08/17/04	103.82	12.39	0.00	91.43	-1.27	--	3200	49	ND<1.0	17	4.8	--	220	
11/12/04	103.82	10.86	0.00	92.96	1.53	--	4000	46	ND<1.0	71	25	--	300	
02/07/05	103.82	9.99	0.00	93.83	0.87	--	4700	57	ND<0.50	63	31	--	250	
05/10/05	103.82	9.82	0.00	94.00	0.17	--	5200	44	ND<0.50	64	25	--	220	
08/22/05	103.82	10.94	0.00	92.88	-1.12	--	3500	36	ND<0.50	13	3.4	--	230	
<b>MW-8</b>														
01/29/96	103.21	5.59	--	97.62	--	ND	--	ND	ND	ND	ND	ND	ND	--
12/18/96	103.21	8.05	--	95.16	-2.46	ND	--	ND	ND	ND	ND	ND	ND	--
04/17/97	103.21	8.81	0.00	94.40	-0.76	ND	--	ND	ND	ND	ND	6	--	
06/20/97	103.20	10.03	--	93.17	-1.23	ND	--	ND	ND	ND	ND	6	--	
09/03/97	103.20	11.18	--	92.02	-1.15	ND	--	ND	ND	ND	ND	13	--	
10/01/97	103.20	11.50	--	91.70	-0.32	--	--	--	--	--	--	--	--	
12/02/97	103.20	8.11	--	95.09	3.39	ND	--	ND	ND	ND	ND	13	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**  
**Circle K Store 05426**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G 8260B	TPPH 8260B	Benzene	Toluene	Ethy- benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	Comments
<b>MW-8 continued</b>														
09/02/98	103.20	9.86	--	93.34	-1.75	ND	--	ND	ND	ND	ND	ND	1220	--
02/04/99	103.20	6.82	--	96.38	3.04	ND	--	9.6	ND	ND	ND	ND	1100	--
05/04/99	103.20	7.08	--	96.12	-0.26	ND	--	ND	ND	ND	ND	ND	1000	--
08/05/99	103.20	10.64	--	92.56	-3.56	ND	--	ND	ND	ND	ND	ND	790	--
11/18/99	103.20	11.13	--	92.07	-0.49	ND	--	ND	ND	ND	ND	ND	870	--
02/18/00	103.20	7.60	--	95.60	3.53	ND	--	ND	ND	ND	ND	ND	580	--
05/18/00	103.20	9.85	--	93.35	-2.25	ND	--	ND	ND	ND	ND	ND	604	--
08/17/00	103.20	11.80	--	91.40	-1.95	ND	--	ND	ND	ND	ND	ND	517	--
11/14/00	103.20	12.06	--	91.14	-0.26	ND	--	ND	ND	ND	ND	ND	360	--
02/20/01	103.20	9.35	0.00	93.85	2.71	ND	--	ND	ND	ND	ND	ND	264	--
05/04/01	103.20	10.80	--	92.40	-1.45	ND	--	ND	ND	ND	ND	ND	380	--
08/20/01	103.20	12.46	0.00	90.74	-1.66	ND>50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	230	--
11/19/01	103.20	11.45	0.00	91.75	1.01	ND>50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	200	--
02/19/02	103.20	9.68	0.00	93.52	1.77	ND>50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	--
05/23/02	103.20	10.85	--	92.35	-1.17	ND>50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	--
08/21/02	103.20	12.38	--	90.82	-1.53	ND>50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	--
11/19/02	103.20	11.66	--	91.54	0.72	110	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	--
02/12/03	103.20	9.67	--	93.53	1.99	68	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	--
05/14/03	103.20	9.41	--	93.79	0.26	52	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	68	--
08/13/03	103.20	11.26	0.00	91.94	-1.85	--	83	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<2.0	--
11/13/03	103.20	12.38	0.00	90.82	-1.12	--	99	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	110	--
02/12/04	103.20	9.74	0.00	93.46	2.64	--	53	ND<0.50	1.0	ND<0.50	1.7	ND<1.0	82	--
05/14/04	103.20	11.12	0.00	92.08	-1.38	--	76	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	99	--
08/17/04	103.20	12.21	0.00	90.99	-1.09	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	110	--

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**  
**Circle K Store 05426**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-8 continued</b>														
11/12/04	103.20	10.94	0.00	92.26	1.27	--	95	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	110	
02/07/05	103.20	9.44	0.00	93.76	1.50	--	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	85	
05/10/05	103.20	--	--	--	--	--	--	--	--	--	--	--	--	
08/22/05	103.20	11.50	0.00	91.70	--	--	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	60	
<b>MW-9</b>														
06/20/97	102.64	9.80	--	92.84	--	5300	--	--	32	ND	370	210	380	--
09/03/97	102.64	--	--	--	--	--	--	--	--	--	--	--	--	
10/01/97	102.64	11.30	--	91.34	--	5200	--	77	41	730	130	390	--	
12/02/97	102.64	8.04	--	94.60	3.26	1700	--	53	ND	110	42	450	--	
09/02/98	102.64	9.38	--	93.26	-1.34	1820	--	ND	ND	ND	ND	5900	--	
02/04/99	102.64	7.73	--	94.91	1.65	1800	--	20	ND	58	40	5700	--	
05/04/99	102.64	7.32	--	95.32	0.41	870	--	15	0.8	36	25	6200	--	
08/05/99	102.64	10.01	--	92.63	-2.69	ND	--	13	ND	27	25	5900	--	
11/18/99	102.64	10.72	--	91.92	-0.71	ND	--	61	ND	ND	18	6400	--	
02/18/00	102.64	6.54	--	96.10	4.18	820	--	29	1.1	39	29	9900	--	
05/18/00	102.64	8.46	--	94.18	-1.92	541	--	ND	ND	11.8	ND	7200	--	
08/17/00	102.64	10.70	--	91.94	-2.24	511	--	27.9	ND	ND	ND	4790	--	
11/14/00	102.64	11.61	--	91.03	-0.91	ND	--	21	ND	ND	ND	6700	--	
02/20/01	102.64	8.30	0.00	94.34	3.31	1360	--	18.7	1.59	25.8	9.08	7150	--	
05/04/01	102.64	9.67	0.00	92.97	-1.37	770	--	35	5.5	27	42	3400	--	
08/20/01	102.64	11.61	0.00	91.03	-1.94	450	--	6.0	ND<2.5	ND<2.5	ND<2.5	3500	--	
11/19/01	102.64	10.68	0.00	91.96	0.93	1300	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5300	--	
02/19/02	102.64	8.81	0.00	93.83	1.87	890	--	ND<5.0	ND<5.0	7.1	ND<5.0	2100	--	
05/23/02	102.64	9.65	--	92.99	-0.84	820	--	32	ND<2.0	4.7	ND<2.0	1200	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**  
**Circle K Store 05426**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-9 continued</b>														
08/21/02	102.64	11.64	--	91.00	-1.99	290	--	4.4	ND<0.50	ND<0.50	ND<0.50	1100	1900	
11/19/02	102.64	9.65	--	92.99	1.99	2600	--	17	ND<50	ND<50	ND<50	1100	--	
02/12/03	102.64	8.77	--	93.87	0.88	1700	--	73	0.91	140	65	1100	--	
05/14/03	102.64	8.68	--	93.96	0.09	2500	--	66	ND<5.0	51	17	480	--	
08/13/03	102.64	11.63	0.00	91.01	-2.95	--	1400	50	ND<10	11	ND<20	--	660	
11/13/03	102.64	10.71	0.00	91.93	0.92	--	1800	ND<2.5	ND<2.5	9.5	8.3	--	330	
02/12/04	102.64	8.87	0.00	93.77	1.84	--	1400	0.51	3.0	8.6	7.5	--	46	
05/14/04	102.64	9.15	0.00	93.49	-0.28	--	1100	ND<0.50	ND<0.50	5.8	2.3	--	26	
08/17/04	102.64	10.44	0.00	92.20	-1.29	--	960	ND<0.50	ND<0.50	1.1	ND<1.0	--	24	
11/12/04	102.64	9.46	0.00	93.18	0.98	--	1600	ND<0.50	ND<0.50	2.9	ND<1.0	--	14	
02/07/05	102.64	8.12	0.00	94.52	1.34	--	1200	ND<0.50	ND<0.50	2.6	ND<1.0	--	7.0	
05/10/05	102.64	7.67	0.00	94.97	0.45	--	1500	ND<0.50	ND<0.50	2.5	ND<1.0	--	6.8	
08/22/05	102.64	9.50	0.00	93.14	-1.83	--	850	ND<0.50	ND<0.50	0.63	ND<1.0	--	13	
<b>OW</b>														
12/30/95	--	--	--	--	--	210	--	8	10	ND	4	--	--	
01/29/96	103.83	6.17	--	97.66	--	--	--	--	--	--	--	--	--	
12/18/96	103.83	8.38	--	95.45	-2.21	--	--	--	--	--	--	--	--	
04/17/97	103.83	--	--	--	--	--	--	--	--	--	--	--	--	
06/20/97	103.78	--	--	--	--	--	--	--	--	--	--	--	--	
09/03/97	103.78	11.55	--	92.23	--	ND	--	3.4	ND	ND	ND	ND	5000	
10/01/97	103.78	11.83	--	91.95	-0.28	--	--	--	--	--	--	--	--	
12/02/97	103.78	7.30	--	96.48	4.53	ND	--	ND	ND	ND	ND	ND	570	
09/02/98	103.78	9.48	--	94.30	-2.18	ND	--	ND	39	ND	ND	ND	2200	
02/04/99	103.78	7.18	--	96.60	2.30	ND	--	ND	ND	ND	ND	ND	320	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**

**Circle K Store 05426**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8260B (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>OW continued</b>														
05/04/99	103.78	7.56	--	96.22	-0.38	ND	--	ND	3.1	ND	ND	200	--	
08/05/99	103.78	10.02	--	93.76	-2.46	ND	--	ND	14	ND	ND	610	--	
11/18/99	103.78	10.80	--	92.98	-0.78	ND	--	2.8	4.7	ND	ND	340	--	
02/18/00	103.78	5.68	--	98.10	5.12	ND	--	ND	ND	ND	ND	ND	--	
05/18/00	103.78	9.84	--	93.94	-4.16	164	--	ND	69.2	ND	ND	ND	--	
08/17/00	103.78	10.14	--	93.64	-0.30	374	--	ND	73.0	ND	ND	274	--	
11/14/00	103.78	11.26	--	92.52	-1.12	87	--	2.8	2	ND	1.3	1600	--	
02/20/01	103.78	7.76	0.00	96.02	3.50	ND	--	ND	ND	ND	ND	ND	--	
05/04/01	103.78	9.79	0.00	93.99	-2.03	ND	--	ND	2.3	ND	ND	440	--	
08/20/01	103.78	10.03	0.00	93.75	-0.24	ND<50	--	ND<0.50	2.8	ND<0.50	ND<0.50	100	--	
11/19/01	103.78	9.55	0.00	94.23	0.48	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
02/19/02	103.78	7.43	0.00	96.35	2.12	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
05/23/02	103.78	8.74	--	95.04	-1.31	ND<50	--	1.2	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
08/21/02	103.78	12.82	--	90.96	-4.08	ND<50	--	ND<0.50	1.2	ND<0.50	ND<0.50	ND<2.5	--	
11/19/02	103.78	11.39	--	92.39	1.43	ND<10000	--	ND<100	ND<100	ND<100	ND<100	ND<500	--	
02/12/03	103.78	9.48	--	94.30	1.91	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
05/14/03	103.78	9.34	--	94.44	0.14	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
08/13/03	103.78	10.43	0.00	93.35	-1.09	--	82	0.71	ND<0.50	ND<0.50	ND<1.0	--	8.6	
11/13/03	103.78	13.60	0.00	90.18	-3.17	--	3700	39	ND>25	ND>25	ND>50	--	5700	
02/12/04	103.78	10.25	0.00	93.53	3.35	--	1000	57	26	17	33	--	440	
05/14/04	103.78	10.90	0.00	92.88	-0.65	--	1100	48	3.4	8.9	34	--	180	
08/17/04	103.78	12.55	0.00	91.23	-1.65	--	2900	350	100	16	220	--	140	
11/12/04	103.78	9.65	0.00	94.13	2.90	--	290	0.86	ND<0.50	ND<0.50	2.3	--	ND<0.50	
02/07/05	103.78	9.90	0.00	93.88	-0.25	--	1100	93	4.2	5.3	21	--	120	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through August 2005**  
**Circle K Store 05426**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8260B	TPPH 8260B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	Comments
<b>OW continued</b>														
05/10/05	103.78	10.08	0.00	93.70	-0.18	--	960	63	0.92	1.6	10	--	76	
08/22/05	103.78	11.05	0.00	92.73	-0.97	--	340	6.4	2.8	ND<0.50	ND<1.0	--	--	16

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D	TRPH	EDC	EDB	Lead (Total)	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Zinc	Ethanol 8260B	Nickel ( $\mu\text{g/l}$ )	Cadmium ( $\text{mg/l}$ )	Chromium ( $\text{mg/l}$ )
	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )		( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )		( $\mu\text{g/l}$ )	( $\text{mg/l}$ )		
<b>MW-2</b>														
12/30/95	300	700	-	-	0.013	-	-	-	-	-	0.11	-	0.11	ND
12/18/96	260	-	-	-	-	-	-	-	-	-	-	-	-	-
04/17/97	590	-	-	-	-	-	-	-	-	-	-	-	-	-
06/20/97	480	-	-	-	-	-	-	-	-	-	-	-	-	-
09/03/97	180	-	-	-	-	-	-	-	-	-	-	-	-	-
12/02/97	350	-	-	-	-	-	-	-	-	-	-	-	-	-
09/02/98	343	-	-	-	-	-	-	-	-	-	-	-	-	-
02/04/99	74	-	-	-	-	-	-	-	-	-	-	-	-	-
05/04/99	170	-	-	-	-	-	-	-	-	-	-	-	-	-
08/05/99	310	-	-	-	-	-	-	-	-	-	-	-	-	-
11/18/99	340	-	-	-	-	-	-	-	-	-	-	-	-	-
02/18/00	380	-	-	-	-	-	-	-	-	-	-	-	-	-
05/18/00	55.6	-	-	-	-	-	-	-	-	-	-	-	-	-
08/17/00	522	-	-	-	-	-	-	-	-	-	-	-	-	-
11/14/00	570	-	-	-	-	-	-	-	-	-	-	-	-	-
02/20/01	62.3	-	-	-	-	-	-	-	-	-	-	-	-	-
05/04/01	95	-	-	-	-	-	-	-	-	-	-	-	-	-
08/20/01	450	-	-	-	-	-	-	-	-	-	-	-	-	-
11/19/01	410	-	-	-	-	-	-	-	-	-	-	-	-	-
02/19/02	110	-	-	-	-	-	-	-	-	-	-	-	-	-
05/23/02	360	-	-	-	-	-	-	-	-	-	-	-	-	-
08/21/02	440	-	-	-	-	-	-	-	-	-	-	-	-	-
11/19/02	140	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/03	100	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/03	67	-	-	-	-	-	-	-	-	-	-	-	-	-
08/13/03	210	-	-	-	-	-	-	-	-	-	-	-	-	-

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D	TRPH	EDC	EDB	Lead (Total)	TAME	TBA	DIPE	ETBE	Zinc	Ethanol 8260B	Nickel	Cadmium	Chromium
	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)
<b>MW-2 continued</b>														
11/13/03	190	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/04	300	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/04	250	-	-	-	-	-	-	-	-	-	-	-	-	-
08/17/04	230	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/04	200	-	-	-	-	-	-	-	-	-	-	-	-	-
02/07/05	310	-	-	-	-	-	-	-	-	-	-	-	-	-
05/10/05	300	-	-	-	-	-	-	-	-	-	-	-	-	-
08/22/05	ND<200	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-6</b>														
01/29/96	69	800	-	-	0.006	-	-	-	-	-	0.006	-	0.07	ND
12/18/96	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
04/17/97	85	-	-	-	-	-	-	-	-	-	-	-	-	-
06/20/97	100	-	-	-	-	-	-	-	-	-	-	-	-	-
09/03/97	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
12/02/97	68	-	-	-	-	-	-	-	-	-	-	-	-	-
09/02/98	126	-	-	-	-	-	-	-	-	-	-	-	-	-
02/04/99	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
05/04/99	70	-	-	-	-	-	-	-	-	-	-	-	-	-
08/05/99	98	-	-	-	-	-	-	-	-	-	-	-	-	-
11/18/99	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
02/18/00	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
05/18/00	101	-	-	-	-	-	-	-	-	-	-	-	-	-
08/17/00	106	-	-	-	-	-	-	-	-	-	-	-	-	-
11/14/00	170	-	-	-	-	-	-	-	-	-	-	-	-	-
02/20/01	123	-	-	-	-	-	-	-	-	-	-	-	-	-
05/04/01	62	-	-	-	-	-	-	-	-	-	-	-	-	-

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**

Circle K Store 05426														
Date Sampled	TPH-D	TRPH	EDC	EDB	Lead (Total)	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Zinc	Ethanol 8260B	Nickel	Cadmium	Chromium
	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(mg/l)	(mg/l)
<b>MW-6 continued</b>														
08/20/01	76	-	-	-	-	-	-	-	-	-	-	-	-	-
11/19/01	87	-	-	-	-	-	-	-	-	-	-	-	-	-
02/19/02	210	-	-	-	-	-	-	-	-	-	-	-	-	-
05/23/02	220	-	-	-	-	-	-	-	-	-	-	-	-	-
11/19/02	130	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/03	110	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/03	94	-	-	-	-	-	-	-	-	-	-	-	-	-
08/13/03	230	-	-	-	-	-	-	-	-	-	-	-	-	-
11/13/03	ND<50	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/04	ND<50	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/04	ND<50	-	-	-	-	-	-	-	-	-	-	-	-	-
08/17/04	ND<50	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/04	ND<50	-	-	-	-	-	-	-	-	-	-	-	-	-
02/07/05	ND<50	-	-	-	-	-	-	-	-	-	-	-	-	-
05/10/05	58	-	-	-	-	-	-	-	-	-	-	-	-	-
08/22/05	ND<200	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-7</b>														
01/29/96	3200	4900	-	-	-	-	-	-	-	-	0.004	-	ND	0.03
12/18/96	1000	-	-	-	-	-	-	-	-	-	-	-	-	-
D 04/17/97	3100	-	-	-	-	-	-	-	-	-	-	-	-	-
04/17/97	3100	-	-	-	-	-	-	-	-	-	-	-	-	-
D 06/20/97	2100	-	-	-	-	-	-	-	-	-	-	-	-	-
06/20/97	1900	-	-	-	-	-	-	-	-	-	-	-	-	-
09/03/97	970	-	-	-	-	-	-	-	-	-	-	-	-	-
12/02/97	1200	-	-	-	-	-	-	-	-	-	-	-	-	-
09/02/98	1490	-	-	-	-	-	-	-	-	-	-	-	-	-

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D	TRPH	EDC	EDB	Lead (Total)	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Zinc	Ethanol 8260B	Nickel	Cadmium	Chromium
	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)
<b>MW-7 continued</b>														
02/04/99	1100	-	-	-	-	-	-	-	-	-	-	-	-	-
05/04/99	1700	-	-	-	-	-	-	-	-	-	-	-	-	-
08/05/99	2200	-	-	-	-	-	-	-	-	-	-	-	-	-
11/18/99	1700	-	-	-	-	-	-	-	-	-	-	-	-	-
02/18/00	1200	-	-	-	-	-	-	-	-	-	-	-	-	-
05/18/00	993	-	ND	ND	-	ND	ND	ND	ND	-	ND	-	-	-
08/17/00	1080	-	-	-	-	-	-	-	-	-	-	-	-	-
11/14/00	2000	-	-	-	-	-	-	-	-	-	-	-	-	-
02/20/01	752	-	-	-	-	-	-	-	-	-	-	-	-	-
05/04/01	1100	-	-	-	-	-	-	-	-	-	-	-	-	-
08/20/01	480	-	-	-	-	-	-	-	-	-	-	-	-	-
11/19/01	420	-	-	-	-	-	-	-	-	-	-	-	-	-
02/19/02	700	-	-	-	-	-	-	-	-	-	-	-	-	-
05/23/02	530	-	-	-	-	-	-	-	-	-	-	-	-	-
08/21/02	1200	-	-	-	-	-	-	-	-	-	-	-	-	-
11/19/02	390	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/03	640	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/03	590	-	-	-	-	-	-	-	-	-	-	-	-	-
08/13/03	580	-	-	-	-	-	-	-	-	-	-	-	-	-
11/13/03	450	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/04	520	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/04	570	-	-	-	-	-	-	-	-	-	-	-	-	-
08/17/04	180	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/04	480	-	-	-	-	-	-	-	-	-	-	-	-	-
02/07/05	460	-	-	-	-	-	-	-	-	-	-	-	-	-
05/10/05	390	-	-	-	-	-	-	-	-	-	-	-	-	-

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D	TRPH	EDC	EDB	Lead (Total)	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Zinc	Ethanol 8260B	Nickel	Cadmium	Chromium
	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)
<b>MW-7 continued</b>														
08/22/05	240	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-8</b>														
01/29/96	ND	600	--	--	0.005	--	--	--	--	0.05	--	0.06	ND	0.05
12/18/96	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
04/17/97	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
06/20/97	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
09/03/97	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
12/02/97	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
09/02/98	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
02/04/99	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/99	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
08/05/99	62	--	--	--	--	--	--	--	--	--	--	--	--	--
11/18/99	68	--	--	--	--	--	--	--	--	--	--	--	--	--
02/18/00	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
05/18/00	60	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/00	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/00	76	--	--	--	--	--	--	--	--	--	--	--	--	--
02/20/01	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/01	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/01	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/01	ND<51	--	--	--	--	--	--	--	--	--	--	--	--	--
02/19/02	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
05/23/02	59	--	--	--	--	--	--	--	--	--	--	--	--	--
08/21/02	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/02	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/03	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D	TRPH	EDC	EDB	Lead (Total)	TAME 8260B	TBA 8260B	DIPE 8260B	Zinc 8260B	Ethanol 8260B	Nickel (mg/l)	Cadmium (mg/l)	Chromium (mg/l)
	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)
<b>MW-8 continued</b>													
05/14/03	ND<50	-	-	-	-	-	-	-	-	-	-	-	-
08/13/03	ND<50	-	-	-	-	-	-	-	-	-	-	-	-
11/13/03	ND<50	-	-	-	-	-	-	-	-	-	-	-	-
02/12/04	ND<50	-	-	-	-	-	-	-	-	-	-	-	-
05/14/04	ND<50	-	-	-	-	-	-	-	-	-	-	-	-
08/17/04	ND<50	-	-	-	-	-	-	-	-	-	-	-	-
11/12/04	ND<50	-	-	-	-	-	-	-	-	-	-	-	-
02/07/05	ND<50	-	-	-	-	-	-	-	-	-	-	-	-
08/22/05	ND>200	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-9</b>													
06/20/97	700	-	-	-	-	-	-	-	-	-	-	-	-
10/01/97	1100	-	-	-	-	-	-	-	-	-	-	-	-
12/02/97	190	-	-	-	-	-	-	-	-	-	-	-	-
09/02/98	241	-	-	-	-	-	-	-	-	-	-	-	-
02/04/99	150	-	-	-	-	-	-	-	-	-	-	-	-
05/04/99	180	-	-	-	-	-	-	-	-	-	-	-	-
08/05/99	480	-	-	-	-	-	-	-	-	-	-	-	-
11/18/99	360	-	-	-	-	-	-	-	-	-	-	-	-
02/18/00	250	-	-	-	-	-	-	-	-	-	-	-	-
05/18/00	193	-	-	-	-	-	-	-	-	-	-	-	-
08/17/00	225	-	-	-	-	-	-	-	-	-	-	-	-
11/14/00	230	-	-	-	-	-	-	-	-	-	-	-	-
02/20/01	195	-	-	-	-	-	-	-	-	-	-	-	-
05/04/01	67	-	-	-	-	-	-	-	-	-	-	-	-
08/20/01	140	-	-	-	-	-	-	-	-	-	-	-	-
11/19/01	110	-	-	-	-	-	-	-	-	-	-	-	-

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**

Date Sampled	TPH-D	TRPH	EDC	EDB	Lead (Total)	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Zinc	Ethanol 8260B	Nickel	Cadmium	Chromium
	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )	( $\text{mg/l}$ )	( $\text{mg/l}$ )								
<b>MW-9 continued</b>														
02/19/02	120	-	-	-	-	-	-	-	-	-	-	-	-	-
05/23/02	150	-	-	-	-	-	-	-	-	-	-	-	-	-
08/21/02	860	-	ND<10	ND<10	-	16	ND<100	ND<10	ND<10	-	ND<2500	-	-	-
11/19/02	120	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/03	430	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/03	400	-	-	-	-	-	-	-	-	-	-	-	-	-
08/13/03	180	-	-	-	-	-	-	-	-	-	-	-	-	-
11/13/03	81	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/04	150	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/04	99	-	-	-	-	-	-	-	-	-	-	-	-	-
08/17/04	55	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/04	61	-	-	-	-	-	-	-	-	-	-	-	-	-
02/07/05	73	-	-	-	-	-	-	-	-	-	-	-	-	-
05/10/05	94	-	-	-	-	-	-	-	-	-	-	-	-	-
08/22/05	ND<200	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>OW</b>														
12/30/95	ND	5200	-	-	0.01	-	-	-	-	-	31	-	ND	0.01
09/03/97	400	-	-	-	-	-	-	-	-	-	-	-	-	-
12/02/97	500	-	-	-	-	-	-	-	-	-	-	-	-	-
09/02/98	646	-	-	-	-	-	-	-	-	-	-	-	-	-
02/04/99	250	-	-	-	-	-	-	-	-	-	-	-	-	-
05/04/99	1800	-	-	-	-	-	-	-	-	-	-	-	-	-
08/05/99	2000	-	-	-	-	-	-	-	-	-	-	-	-	-
11/18/99	2200	-	-	-	-	-	-	-	-	-	-	-	-	-
02/18/00	840	-	-	-	-	-	-	-	-	-	-	-	-	-
05/18/00	1500	-	-	-	-	-	-	-	-	-	-	-	-	-

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D	TRPH	EDC	EDB	Lead (Total)	TAME 8260B	TBA 8260B	DIPE 8260B	ETBEE 8260B	Zinc	Ethanol 8260B	Nickel	Cadmium	Chromium
	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(mg/l)	(mg/l)
<b>OW continued</b>														
08/17/00	3170	-	-	-	-	-	-	-	-	-	-	-	-	-
11/14/00	610	-	-	-	-	-	-	-	-	-	-	-	-	-
02/20/01	444	-	-	-	-	-	-	-	-	-	-	-	-	-
05/04/01	410	-	-	-	-	-	-	-	-	-	-	-	-	-
08/20/01	1600	-	-	-	-	-	-	-	-	-	-	-	-	-
11/19/01	910	-	-	-	-	-	-	-	-	-	-	-	-	-
02/19/02	490	-	-	-	-	-	-	-	-	-	-	-	-	-
05/23/02	120	-	-	-	-	-	-	-	-	-	-	-	-	-
08/21/02	1400	-	-	-	-	-	-	-	-	-	-	-	-	-
11/19/02	960	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/03	2100	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/03	220	-	-	-	-	-	-	-	-	-	-	-	-	-
08/13/03	60	-	-	-	-	-	-	-	-	-	-	-	-	-
11/13/03	170	-	-	-	-	-	-	-	-	-	-	-	-	-
02/12/04	250	-	-	-	-	-	-	-	-	-	-	-	-	-
05/14/04	150	-	-	-	-	-	-	-	-	-	-	-	-	-
08/17/04	150	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/04	230	-	-	-	-	-	-	-	-	-	-	-	-	-
02/07/05	150	-	-	-	-	-	-	-	-	-	-	-	-	-
05/10/05	220	-	-	-	-	-	-	-	-	-	-	-	-	-
08/22/05	ND>200	-	-	-	-	-	-	-	-	-	-	-	-	-

# COORDINATED EVENT DATA

Table 1

**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravenstein Highway, Cotati, CA**

Well Number	Date Sampled	P/NP	TOC Elevation (feet ms)	Depth to Water (feet bgs)	Water Level Elevation (feet ms)	TPHg ( $\mu\text{g/L}$ )	TPHd ( $\mu\text{g/L}$ )	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethylbenzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	MtBE ( $\mu\text{g/L}$ )	DO (mg/L)	Comments	
AS-1	11/19/2001	--	102.43	12.41	90.02	30,000	--	9,600	ND<100	470	210	490	--		
	2/19/2002	--	102.43	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	6/20/2002	--	102.43	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	8/21/2002	--	102.43	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	11/19/2002	--	102.43	12.30	90.13	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	02/12/2003	--	102.43	--	--	--	--	--	--	--	--	--	--	Not Sampled	
	05/14/2003	--	102.43	--	--	--	--	--	--	--	--	--	--	Not Sampled	
	08/13/2003	--	102.43	12.20	90.23	--	--	--	--	--	--	--	--	Not Sampled	
	11/13/2003	P	102.43	12.79	89.64	18,000	--	8,100	26	150	41	600	1.20		
	02/12/2004	--	102.43	11.82	90.61	--	--	--	--	--	--	--	--	h, Not Sampled	
	05/14/2004	--	102.43	11.35	91.08	--	--	--	--	--	--	--	--	Not Sampled	
	08/17/2004	--	102.43	12.27	90.16	--	--	--	--	--	--	--	--	Not Sampled	
	11/12/2004	P	102.43	11.92	90.51	17,000	J	--	6,100	J	<50	230	75	670 J	0.60
	02/07/2005	--	102.43	--	--	--	--	--	--	--	--	--	--	Not Sampled	
	05/10/2005	--	102.43	11.18	91.25	--	--	--	--	--	--	--	--	Not Sampled	
	08/22/2005	--	102.43	11.40	91.03	--	--	--	--	--	--	--	--	Not Sampled	
MW-1A	3/26/1996	--	102.47	6.33	96.14	96,000	--	12,000	ND<125	4,300	9,900	9,900	ND<625		
	6/26/1996	--	102.47	8.67	93.80	58,000	--	12,000	ND<100	5,900	3,600	ND<500	--		
	9/24/1996	--	102.47	10.14	92.33	54,000	--	11,000	ND<200	4,200	2,200	ND<1,000	--		
	12/15/1996	--	102.47	8.97	93.50	52,000	--	12,000	ND<250	5,100	3,300	ND<1,250	--		
	4/7/1997	NP	102.47	9.97	92.50	46,000	--	10,000	160	5,700	2,500	1,100	--		
	6/20/1997	NP	102.47	9.75	92.72	60,000	--	12,000	ND<100	6,600	2,600	980	--		
	9/4/1997	NP	102.47	10.78	91.69	57,000	--	13,000	ND<200	6,900	4,200	ND<1,200	--		
	12/2/1997	NP	102.47	9.61	92.86	61,000	--	12,000	ND<200	5,300	6,900	1,700	--		
	2/23/1998	NP	102.47	5.14	97.33	63,000	--	13,000	ND<200	5,800	4,000	1,400	--		
	5/29/1998	NP	102.47	8.18	94.29	63,000	--	10,000	ND<200	5,600	3,000	ND<1,200	--		
	9/2/1998	NP	102.47	9.71	92.76	52,000	--	9,900	ND<100	6,300	1,500	2,600	--		
	1/12/1998	NP	102.47	10.58	91.89	69,000	--	11,000	ND<100	5,700	3,400	ND<600	--		
	2/4/1999	NP	102.47	8.75	93.72	52,000	--	10,000	ND<100	5,200	2,200	710	--		
	5/4/1999	NP	102.47	8.12	94.35	42,000	--	11,000	66	6,500	1,200	1,300	--		
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--		
	8/5/1999	NP	102.47	10.41	92.06	37,000	--	8,900	90	5,300	4,500	1,000	--		
	1/11/1999	--	102.43	--	--	--	--	--	--	--	--	--	--		

Table 1

**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravenstein Highway, Cotati, CA**

Well Number	Date Sampled	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-1A	11/18/1989	NP	102.47	11.12	91.35	28,000	--	11,000	44	7,000	600	420	--	
	2/18/2000	NP	102.47	8.70	93.77	44,000	--	10,000	45	4,300	600	1,000	--	
	6/20/2000	NP	102.47	10.49	91.98	43,000	--	11,000	70	5,500	920	620	--	
	8/17/2000	NP	102.47	12.40	90.07	46,000	--	10,000	38	5,700	1,500	630	--	
	11/14/2000	NP	102.47	11.93	90.54	37,000	--	9,530	ND<125	5,390	975	ND<1,250	--	
	2/20/2001	NP	102.47	9.59	92.88	40,500	--	10,300	ND<100	4,770	1,360	1,080	--	
	5/4/2001	NP	102.47	10.46	92.01	42,700	--	9,060	ND<100	4,750	1,640	ND<1,000	--	
	8/20/2001	NP	102.47	12.03	90.44	37,000a	--	8,800	ND<200	5,000	1,900	ND<100	--	
	11/19/2001	NP	102.47	11.55	90.92	46,000	--	7,200	64	4,500	1,300	1,100	--	
	2/19/2002	NP	102.47	9.95	92.52	30,000	--	8,400	ND<100	3,600	1,300	670	--	
	6/20/2002	-	102.47	11.07	91.40	44,000	--	10,000	130	6,100	2,100	680	--	
	8/21/2002	NP	102.47	11.90	90.57	24,000	--	7,900	ND<100	4,700	1,200	ND<500	--	
	11/19/2002	NP	102.47	11.06	91.41	29,000	--	7,500	350	3,100	1,400	2,900 (500) d	--	
	2/12/2003	NP	102.47	9.51	92.96	22,000	--	6,600	<50	1,800	340	950	--	
	5/14/2003	NP	102.47	9.70	92.77	19,000	--	6,400	65	2,000	430	670 J	1.30	
	8/13/2003	NP	102.47	11.42	91.05	39,000	--	8,100	<250	3,400	380	840	0.70	
	11/13/2003	NP	102.47	12.09	90.38	19,000	--	7,000	<100	1,200	110	600	0.80	
	2/12/2004	NP	102.47	9.95	92.52	18,000	--	5,200	<120	1,200	180	430	1.0 h	
	5/14/2004	NP	102.47	10.61	91.86	26,000	--	6,500	<250	2,700	280	480	1.0	
	8/17/2004	NP	102.47	11.55	90.92	21,000	--	6,900	<120	2,800	210	430	1.20	
	11/12/2004	NP	102.47	10.85	91.62	1,300	--	6,100 J	<50	1,300	74	530 J	0.10	
	2/07/2005	NP	102.47	9.76	92.71	18,000 J	--	5,000	21	1,100	63	360	0.70	
	5/10/2005	NP	102.47	9.75	92.72	<25,000	--	5,800	<250	1,400	<250	370	0.90	
	08/22/2005	NP	102.47	10.57	91.90	30,000 J	--	6,700 J	<250 UJ	2,000 J	<250 UJ	370 J	0.80	
MW-2	3/26/1996	-	101.43	7.31	94.12	390	--	45	ND<0.5	14	3.8	220	--	
	6/26/1996	-	101.43	8.73	92.70	200	--	ND<0.5	ND<0.5	ND<0.5	290	--		
	9/24/1996	-	101.43	9.81	91.62	830	--	ND<5.0	ND<5.0	6.1	6.6	640	--	
	12/15/1996	-	101.43	8.88	92.75	580	--	ND<2.5	ND<2.5	7.5	6.5	820	--	
	4/17/1997	NP	101.43	9.18	92.25	290	--	12	0.79	0.8	0.72	260	--	
	6/20/1997	NP	101.43	9.61	91.82	360	--	ND<2	ND<2	ND<2	ND<2	360	--	
	9/4/1997	NP	101.43	10.63	90.80	510	--	7	ND<5	8	ND<5	740 (770)d	--	
	12/2/1997	NP	101.43	--	DRY	NS	--	NS	NS	NS	NS	NS	--	Not sampled, DRY
	2/23/1998	NP	101.43	5.19	96.24	420	--	24	1.6	18	17	800	--	

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Well Number	Date Sampled	P/NP	TOC Elevation (feet msl)	Depth to Water Elevation (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-2	5/29/1998	NP	101.43	8.03	93.40	ND<500	--	28	ND<5	7.3	5.8	1,000	--	
	9/21/1998	NP	101.43	9.80	91.63	ND>2,000	--	37	ND>20	ND>20	ND>20	1,900	--	
	11/20/1998	NP	101.43	10.10	91.33	ND<1,000	--	ND<10	ND<10	ND<10	ND<10	1,600	--	
	2/4/1999	--	101.43	--	DRY	NS	--	NS	NS	NS	NS	NS	--	Not sampled, DRY
	5/4/1999	NP	101.43	8.15	93.28	140	--	0.7	ND>0.5	ND>0.5	ND>0.5	91	--	
	8/5/1999	NP	101.43	--	DRY	NS	--	NS	NS	NS	NS	NS	--	Not sampled, DRY
	11/18/1999	NP	101.43	--	DRY	NS	--	NS	NS	NS	NS	NS	--	Not sampled, DRY
	2/18/2000	NP	101.43	7.82	93.61	660	--	4.2	1.2	9.7	9.5	330	--	
	6/20/2000	NP	101.43	9.93	91.50	460	--	25	0.6	4.5	10	590	--	
	8/17/2000	NP	101.43	11.80	89.63	850	--	9.4	ND>0.5	4.4	12	960	--	
	11/14/2000	NP	101.43	11.24	90.19	538	--	10.1	ND<1	1.22	3.13	1,090	--	
	2/20/2001	NP	101.43	8.90	92.53	431	--	3.92	ND>0.5	5.74	6.22	990	--	
	5/4/2001	NP	101.43	9.90	91.53	734	--	9.77	ND>2.5	13.1	8.12	1,220	--	
	8/20/2001	NP	101.43	11.27	90.16	540a	--	1.9	1.9	1	ND<1.0	690	--	
	11/19/2001	NP	101.43	10.96	90.47	3,000	--	8	ND>5.0	22	9	1,500	--	
	2/7/2002	NP	101.43	9.11	92.32	840	--	25	1.5	10	8.1	610	--	
	6/20/2002	--	101.43	10.10	91.33	1,300	--	51	1.1	6.5	3.1	610	--	
	8/21/2002	NP	101.43	11.06	90.37	2,300	--	51	ND<5	ND<5	6	670	--	
	11/19/2002	NP	101.43	10.59	90.84	8,300	--	1,500	38	640	180	840	--	
	02/12/2003	NP	101.43	8.96	92.47	<5,000	--	<50	<50	<50	<50	490	--	
	05/14/2003	NP	101.43	9.14	92.29	930	--	12 J	<1.0	5.7	2.6	600 J	0.90	
	08/13/2003	NP	101.43	10.35	91.08	3,100	--	30	<25	<25	<25	700	0.70	
	11/13/2003	NP	101.43	12.47	88.96	4,800	--	56	<25	31	<25	540	1.50	
	02/12/2004	NP	101.43	9.22	92.21	1,500	--	<5.0	<5.0	7.0	<5.0	220	1.0 h	
	05/14/2004	NP	101.43	9.93	91.50	1,600	--	<50	<50	<50	<50	220	1.0	
	08/17/2004	NP	101.43	10.60	90.83	2,700	--	<25	<25	<25	<25	260	1.80	
	11/12/2004	NP	101.43	10.23	91.20	3,800	--	12	<12	18	<12	180	0.20	
	02/07/2005	NP	101.43	9.25	92.18	1,800 J	--	7.5	<5.0	11	6.9	78	0.60	
	05/10/2005	NP	101.43	9.11	92.32	760	--	14	<2.5	12	6.8	120	0.70	
	08/22/2005	NP	101.43	9.85	91.58	3,000 J	--	22 J	<2.5 UJ	31 J	19 J	110 J	1.30	
MW-3	3/26/1996	--	102.72	6.51	96.21	ND>250	--	ND>2.5	ND>2.5	ND>2.5	ND>2.5	920	--	
	6/26/1996	--	102.72	8.58	94.14	ND>50	--	ND>0.5	ND>0.5	ND>0.5	ND>0.5	84	--	
	9/24/1996	--	102.72	10.61	92.11	ND>50	--	ND>0.5	ND>0.5	ND>0.5	ND>0.5	3.4	--	

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Well Number	Date Sampled	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)	Ethyl-benzene (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-3	12/15/1996	--	102.72	8.58	94.14	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--
	4/17/1997	NP	102.72	9.02	93.70	ND<50	--	ND<0.5	3.4	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--
	6/20/1997	NP	102.72	10.12	92.60	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--
	9/4/1997	NP	102.72	11.43	91.29	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3	--
	12/2/1997	NP	102.72	9.21	93.51	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--
	2/23/1998	NP	102.72	4.40	98.32	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/29/1998	NP	102.72	7.55	95.17	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--
	9/2/1998	NP	102.72	9.90	92.82	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--
	11/20/1998	NP	102.72	10.45	92.27	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--
	2/4/1999	NP	102.72	7.64	95.08	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--
	5/4/1999	NP	102.72	7.75	94.97	ND<50	--	ND<0.5	2.8	ND<0.5	ND<0.5	ND<0.5	ND<3	--
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	--
	8/5/1999	NP	102.72	11.17	91.55	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.5	--
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	--
	11/18/1999	NP	102.72	11.38	91.34	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--
	2/18/2000	NP	102.72	8.70	94.02	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--
	6/20/2000	NP	102.72	11.00	91.72	ND<50	--	ND<0.5	1.2	ND<0.5	ND<1	ND<1	ND<3	--
	8/7/2000	NP	102.72	12.60	90.12	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	6	--	--
	11/14/2000	NP	102.72	12.11	90.61	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--
	2/20/2001	NP	102.72	9.85	92.87	ND<50	--	ND<0.5	1.02	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--
	5/4/2001	NP	102.72	10.76	91.96	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--
	8/20/2001	NP	102.72	12.25	90.47	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15	--	--
	11/19/2001	NP	102.72	11.81	90.91	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	30	--	--
	2/19/2002	NP	102.72	10.24	92.48	ND<50	--	ND<0.50	0.74	ND<0.50	1.1	ND<0.50	--	--
	6/20/2002	--	102.72	11.40	91.32	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--
	8/21/2002	NP	102.72	12.06	90.66	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	76	--	--
	11/19/2002	NP	102.72	11.56	91.16	ND<50	--	5.5	ND<0.5	2.4	ND<0.5	32	--	--
	02/12/2003	NP	102.72	10.07	92.65	<50	--	<0.50	<0.50	<0.50	<0.50	0.66	--	--
	05/14/2003	NP	102.72	9.88	92.84	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	--
	08/13/2003	NP	102.72	11.75	90.97	66	--	<2.5	<2.5	<2.5	<2.5	83	1.20	--
	11/13/2003	NP	102.72	12.55	90.17	100 R	--	<5.0	<5.0	<5.0	<5.0	230	1.60	--
	02/12/2004	NP	102.72	10.23	92.49	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.40	h
	05/14/2004	NP	102.72	11.02	91.70	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	--

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Well Number	Date Sampled	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg ( $\mu\text{g/L}$ )	TPHd ( $\mu\text{g/L}$ )	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethy-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	MIBE ( $\mu\text{g/L}$ )	DO (mg/L)	Comments
MW-3	08/17/2004	NP	102.72	11.85	90.87	<50	--	<0.50	<0.50	<0.50	<0.50	30	2.10	
	11/12/2004	NP	102.72	11.13	91.59	<50 UJ	--	<0.50	3.0	<0.50	<0.50	120 J	2.50	
	02/07/2005	NP	102.72	9.93	92.79	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	
	05/10/2005	NP	102.72	9.65	93.07	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	
	08/22/2005	NP	102.72	11.00	91.72	<50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	23 J	0.90	
MW-4	3/26/1996	--	101.59	8.27	93.32	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/26/1996	--	101.59	9.68	91.91	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	9/24/1996	--	101.59	11.22	90.37	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/15/1996	--	101.59	9.92	91.67	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	4/17/1997	--	101.59	9.36	92.23	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/1997	--	101.59	9.75	91.84	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	9/4/1997	--	101.59	10.69	90.90	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/21/1997	--	101.59	9.17	92.42	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/23/1998	--	101.59	5.88	95.71	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	32	--	
	5/29/1998	--	101.59	8.35	93.24	ND<500	--	ND<5	ND<5	ND<5	ND<5	310	--	
	9/2/1998	--	101.59	9.47	92.12	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	1/12/20/1998	--	101.59	10.29	91.30	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/4/1999	--	101.59	8.40	93.19	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/4/1999	--	101.59	8.63	92.96	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2,600	--	
	8/5/1999	--	101.59	11.60	89.99	4.400	--	1,100	ND<25	37	35	110	--	
	8/5/1999	--	102.43	---	---	---	--	---	---	---	---	---	--	
	11/18/1999	--	101.59	10.52	91.07	ND<50	--	0.6	ND<0.5	ND<0.5	ND<1	140	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	3/21/2000	--	101.59	8.08f	--	71	--	ND<0.5	ND<0.5	ND<1	ND<3	--		
	6/20/2000	--	101.59	9.87	91.72	ND<50	--	ND<0.5	0.6	ND<0.5	ND<1	61(71)d	--	
	8/17/2000	g	101.59	NM	NM	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/14/2000	NP	101.59	11.37	90.22	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15.8	--	
	2/20/2001	NP	101.59	8.76	92.83	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	194	--	
	5/4/2001	NP	101.59	9.86	91.73	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	
	8/20/2001	NP	101.59	11.30	90.29	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	--	
	11/19/2001	NP	101.59	11.00	90.59	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	88	--	
	2/19/2002	NP	101.59	9.29	92.30	110	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	230	--	
	6/20/2002	--	101.59	10.52	91.07	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	

Table 1

**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravenstein Highway, Cotati, CA**

Well Number	Date Sampled	TOC Elevation (feet msl)	Depth to Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Comments
MW-4	8/21/2002	NP	101.59	11.23	90.36	ND<50	--	ND<0.5	ND<0.5	ND<0.5	8.5	--
	11/19/2002	NP	101.59	10.39	91.20	ND<50	--	0.52	ND<0.5	ND<0.5	ND<2.5	--
	02/12/2003	NP	101.59	8.34	93.25	240	--	<0.50	<0.50	<0.50	220	--
	05/14/2003	NP	101.59	9.27	92.32	200	--	<0.50	<0.50	<0.50	700.J	0.90
	08/13/2003	NP	101.59	10.80	90.79	<50	--	<0.50	<0.50	<0.50	1.2	2.10
	11/13/2003	NP	101.59	11.37	90.22	<50	--	<0.50	<0.50	<0.50	12	3.10
	02/12/2004	NP	101.59	9.30	92.29	<50	--	<0.50	<0.50	<0.50	<0.50	1.40 h
	05/14/2004	NP	101.59	9.93	91.66	<50	--	<0.50	<0.50	<0.50	<0.50	2.50
	08/17/2004	NP	101.59	10.90	90.69	<50	--	<0.50	<0.50	<0.50	11	1.40
	11/12/2004	NP	101.59	9.85	91.74	<50 JJ	--	<0.50 JJ	<0.50 JJ	<0.50 JJ	0.81 J	2.60
	02/07/2005	NP	101.59	9.28	92.31	<50	--	<0.50	<0.50	<0.50	3.1	0.80
	05/10/2005	NP	101.59	8.97	92.62	<50	--	<0.50	<0.50	<0.50	<0.50	0.70
	08/22/2005	NP	101.59	9.70	91.89	<50 JJ	--	<0.50 JJ	<0.50 JJ	<0.50 JJ	<0.50 JJ	2.0
MW-5	3/26/1996	--	101.8	8.24	93.56	NS	--	NS	NS	NS	NS	--
	6/26/1996	--	101.8	9.62	92.18	NS	--	NS	NS	NS	NS	--
	9/24/1996	--	101.8	11.16	90.64	NS	--	NS	NS	NS	NS	--
	12/15/1996	--	101.8	9.86	91.94	NS	--	NS	NS	NS	NS	--
	4/17/1997	--	101.8	9.27	92.53	NS	--	NS	NS	NS	NS	--
	6/20/1997	--	101.8	9.70	92.10	ND<50	--	ND<0.5	ND<0.5	ND<0.5	26	--
	9/4/1997	--	101.8	10.38	91.42	NS	--	NS	NS	NS	NS	--
	12/2/1997	--	101.8	NM	NM	NS	--	NS	NS	NS	NS	--
	2/23/1998	--	101.8	5.66	96.14	NS	--	NS	NS	NS	NS	--
	5/29/1998	--	101.8	8.12	93.68	ND<500	--	ND<5	ND<5	ND<5	430	--
	9/2/1998	--	101.8	9.35	92.45	NS	--	NS	NS	NS	NS	--
	11/20/1998	--	101.8	10.04	91.76	NS	--	NS	NS	NS	NS	--
	2/4/1999	--	101.8	8.28	93.52	NS	--	NS	NS	NS	NS	--
	5/4/1999	--	101.8	8.46	93.34	ND<50	--	ND<0.5	ND<0.5	ND<0.5	4,800	--
	8/5/1999	--	101.8	10.08	91.72	NS	--	NS	NS	NS	NS	--
	11/18/1999	--	101.8	10.06	91.74	NS	--	NS	NS	NS	NS	--
	2/18/2000	--	101.8	7.90	93.90	NS	--	NS	NS	NS	NS	--
	6/20/2000	--	101.8	9.73	92.07	ND<50	--	ND<0.5	1	ND<0.5	860	--
	8/17/2000	--	101.8	11.60	90.20	NS	--	NS	NS	NS	NS	--
	11/14/2000	--	101.8	11.08	90.72	NS	--	NS	NS	NS	NS	--

Table 1

**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravenstein Highway, Cotati, CA**

Well Number	Date Sampled	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-5	2/20/2001	--	101.8	8.52	93.28	NS	--	NS	NS	ND<0.5	ND<0.5	NS	--	Not sampled
	5/4/2001	NP	101.8	9.76	92.04	ND>50	--	ND>0.5	ND>0.5	ND>0.5	ND>0.5	1,850	--	
	8/20/2001	--	101.8	11.08	90.72	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2001	--	101.8	10.51	91.29	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/19/2002	--	101.8	9.08	92.72	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/2002	--	101.8	10.15	91.65	ND>50	--	ND>0.5	ND>0.5	ND>0.5	ND>0.5	ND>0.5	2.6	--
	8/21/2002	NP	101.8	10.93	90.87	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	NP	101.8	--	--	--	--	--	--	--	--	--	--	Well Inaccessible
	02/12/2003	--	101.80	--	--	--	--	--	--	--	--	--	--	Well Inaccessible
	05/14/2003	--	101.80	--	--	--	--	--	--	--	--	--	--	Well Inaccessible
	08/13/2003	--	101.80	--	--	--	--	--	--	--	--	--	--	Well Inaccessible
	11/13/2003	--	101.80	--	--	--	--	--	--	--	--	--	--	Well Inaccessible
	02/12/2004	--	101.80	9.18	92.62	--	--	--	--	--	--	--	--	h
	05/14/2004	NP	101.80	9.73	92.07	100	--	<10	<10	<10	<10	370	1.80	
	08/17/2004	--	101.80	11.12	90.68	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	--	101.80	9.50	92.30	--	--	--	--	--	--	--	--	Not Sampled
	02/07/2005	--	101.80	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/10/2005	NP	101.80	8.78	93.02	<500	--	<5.0	<5.0	<5.0	<5.0	320	0.40	
MW-6	3/26/1996	--	103.53	8.16	95.37	3.900	--	750	ND>5.0	50	23	170	--	
	6/26/1996	--	103.53	9.89	93.64	5,000	--	1,500	ND>20	39	ND>20	260	--	
	9/24/1996	--	103.53	11.43	92.10	1,900	--	170	3.7	28	12	120	--	
	12/15/1996	--	103.53	9.66	93.87	970	--	180	ND>2.5	12	ND>2.5	43	--	
	4/17/1997	NP	103.53	10.12	93.41	2,500	--	420	10	71	35	130	--	
	6/20/1997	NP	103.53	11.09	92.44	2,400	--	330	ND<5	26	13	66	--	
	9/4/1997	NP	103.53	12.00	91.53	2,100	--	320	ND<5	7	7	94	--	
	12/2/1997	NP	103.53	10.05	93.48	1,800	--	360	6	19	7	63	--	
	2/23/1998	NP	103.53	6.21	97.32	400	--	31	2.1	2	2.7	ND<0.5	--	
	5/29/1998	NP	103.53	8.95	94.58	940	--	61	2	5.7	3.9	59	--	
	9/21/1998	NP	103.53	10.85	92.68	1,500	--	170	5	3	10	96	--	
	11/20/1998	NP	103.53	11.55	91.98	1,900	--	270	3	ND<2.5	4	88	--	
	2/4/1999	NP	103.53	9.13	94.40	1,500	--	190	3.4	14	10	110	--	
	5/4/1999	NP	103.53	9.29	94.24	2,800	--	400	ND<5	57	28	140	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	

Table 1

**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravenstein Highway, Cotati, CA**

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet msl)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethy-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-6	8/5/1999	NP	103.53	10.10	93.43	ND<0	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	420	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	11/18/1999	NP	103.53	11.80	91.73	2,600	--	400	7.2	4.9	11	23	--	
	2/18/2000	NP	103.53	8.44	95.09	530	--	80	0.7	2.2	2	ND<3	--	
	6/20/2000	NP	103.53	11.41	92.12	490	--	70	1.2	2.4	2.4	840	--	
	8/17/2000	NP	103.53	13.38	90.15	2,200	--	440	2.9	6.3	7.8	440	--	
	11/14/2000	NP	103.53	12.85	90.68	2,950	--	746	ND<10	ND<10	ND<10	1,970(1,880)d	--	
	2/20/2001	NP	103.53	10.22	93.31	602	--	60	0.522	1.11	0.892	3,530(3,550)d	--	
	5/4/2001	NP	103.53	11.49	92.04	361	--	11.6	ND>0.5	0.776	ND>0.5	9,220(6,690)d	--	
	8/20/2001	NP	103.53	12.97	90.56	1,400b	--	50	ND<5.0	ND<5.0	ND<5.0	9,100(c8.8)d	--	
	11/19/2001	NP	103.53	12.21	91.32	590	--	24	0.81	2.2	1.5	500	--	
	2/19/2002	NP	103.53	10.74	92.79	140	--	ND<0.50	0.56	0.58	0.77	170	--	
	6/20/2002	--	103.53	12.05	91.48	680	--	170	1.2	14	2.3	520	--	
	8/21/2002	NP	103.53	12.78	90.75	88	--	1.9	ND<0.5	1.4	ND<0.5	ND<2.5	--	
	11/19/2002	NP	103.53	11.46	92.07	ND<1,000	--	98	ND<10	28	11	ND<50	--	
	02/12/2003	NP	103.53	9.55	93.98	<500	--	<5.0	<5.0	<5.0	<5.0	<5.0	--	
	05/14/2003	NP	103.53	10.35	93.18	200	--	2.6 J	<0.50	<0.50	0.51	44 J	120	
	08/13/2003	NP	103.53	12.37	91.16	240	--	<2.5	<2.5	<2.5	<2.5	21	1.0	
	11/13/2003	NP	103.53	13.08	90.45	180	--	16	<2.5	<2.5	<2.5	12	1.10	
	02/12/2004	NP	103.53	10.72	92.81	190	--	1.8	<0.50	0.94	<0.50	3.9	1.20 h	
	05/14/2004	NP	103.53	11.52	92.01	150	--	<2.5	<2.5	<2.5	<2.5	9.8	1.10	
	08/17/2004	NP	103.53	12.12	91.41	110	--	5.5	<0.50	1.6	1.1	6.4	1.30	
	11/12/2004	NP	103.53	11.39	92.14	380 J	--	8.1	<2.5	<2.5	<2.5	31 J	0.40	
	02/07/2005	NP	103.53	10.52	93.01	340 J	--	5.0	<0.50	7.0	1.4	4.1	0.60	
	05/10/2005	NP	103.53	10.63	92.90	72	--	0.83	<0.50	<0.50	<0.50	2.4	1.40	
	08/22/2005	NP	103.53	11.43	92.10	780 J	--	13 J	0.72 J	1.4 J	2.7 J	11 J	0.80	
MW-7	3/26/1996	--	103.46	7.88	95.58	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/26/1996	--	103.46	9.80	93.66	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	9/24/1996	--	103.46	11.71	91.75	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/15/1996	--	103.46	9.98	93.48	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	4/17/1997	--	103.46	10.10	93.36	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/1997	--	103.46	11.15	92.31	ND<50	--	ND<0.5	ND<0.5	ND<0.5	3	3	--	Not sampled
	9/4/1997	--	103.46	12.21	91.25	NS	--	NS	NS	NS	NS	NS	--	Not sampled

Table 1

**Groundwater Elevation and Analytical Data**  
 ARCO Service Station No. 1341  
 8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Comments
MW-7	1/2/1997	--	103.46	10.76	92.70	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/23/1998	--	103.46	5.63	97.83	NS	--	NS	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3	--
	5/29/1998	--	103.46	8.90	94.56	ND<50	--	NS	NS	NS	NS	NS	--	Not sampled
	9/2/1998	--	103.46	11.00	92.46	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/20/1998	--	103.46	11.63	91.83	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/4/1999	--	103.46	9.05	94.41	NS	--	NS	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--
	5/4/1999	--	103.46	9.05	94.41	ND<50	--	NS	NS	NS	NS	NS	--	Not sampled
	8/5/1999	--	103.46	12.01	91.45	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/18/1999	--	103.46	12.52	90.94	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/18/2000	--	103.46	9.86	93.60	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/2000	--	103.46	12.05	91.41	ND<50	--	ND<0.5	1	ND<0.5	ND<1	120	--	Not sampled
	8/7/2000	--	103.46	13.78	89.68	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/14/2000	--	103.46	13.10	90.36	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/20/2001	--	103.46	11.12	92.34	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/4/2001	NP	103.46	12.00	91.46	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	189	--	Not sampled
	8/20/2001	--	103.46	13.20	90.26	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2001	--	103.46	12.91	90.55	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/7/2002	--	103.46	11.43	92.03	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/2002	--	103.46	12.43	91.03	81	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	480	--	Not sampled
	8/21/2002	NP	103.46	13.07	90.39	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	NP	103.46	12.81	90.66	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/21/2003	NP	103.46	11.23	92.23	--	--	--	--	--	--	--	--	Not sampled
	5/14/2003	NP	103.46	11.11	92.35	450	--	<1.0	<1.0	<1.0	<1.0	1,100	1.0	Not sampled
	8/13/2003	--	103.46	12.71	90.75	--	--	--	--	--	--	--	--	Not Sampled
	2/12/2004	--	103.46	11.39	92.07	--	--	--	--	--	--	--	--	h
	5/14/2004	NP	103.46	12.14	91.32	170	--	<12	<12	<12	<12	530	1.20	Not Sampled
	8/17/2004	--	103.46	12.96	90.50	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	--	103.46	12.47	90.99	--	--	--	--	--	--	--	--	Not Sampled
	2/20/2005	--	103.46	--	--	--	--	--	--	--	--	--	--	Not sampled
	5/10/2005	NP	103.46	11.11	92.35	120	--	<1.0	<1.0	<1.0	<1.0	140	0.80	Not sampled
	8/22/2005	--	103.46	12.22	91.24	--	--	--	--	--	--	--	--	Not Sampled
MW-8	3/26/1996	--	100.70	6.69	94.01	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	--	
	6/26/1996	--	100.70	8.16	92.54	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	--	

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**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravestine Highway, Cotati, CA**

Well Number	Date Sampled	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-8	9/24/1996	--	100.70	9.50	91.20	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	12/15/1996	--	100.70	8.44	92.26	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	47	--	
	4/17/1997	--	100.70	8.21	92.49	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	6/20/1997	--	100.70	9.02	91.68	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	9/4/1997	--	100.70	9.96	90.74	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	--	
	12/2/1997	--	100.70	8.85	91.85	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	87	--	
	2/23/1998	--	100.70	5.64	95.06	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	--	
	5/29/1998	--	100.70	7.51	93.19	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	9/21/1998	--	100.70	8.81	91.89	120	--	1.1	ND<0.5	ND<0.5	3.3	ND<0.5	3	--
	12/1/1998	--	100.70	9.40e	91.30	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	21	--	
	2/4/1999	--	100.70	7.90	92.80	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	5/4/1999	--	100.70	7.62	93.08	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8	--	
	8/5/1999	--	100.70	9.60	91.10	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	11/18/1999	--	100.70	10.08	90.62	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	120	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	2/18/2000	--	100.70	8.04	92.66	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	310	--	
	6/20/2000	--	100.70	9.35	91.35	ND<50	--	ND<0.5	0.7	ND<0.5	ND<1	560	--	
	8/17/2000	--	100.70	11.18	89.52	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	320	--	
	11/14/2000	NP	100.70	10.68	90.02	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	273	--	
	2/20/2001	NP	100.70	8.41	92.29	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	122	--	
	5/4/2001	NP	100.70	9.32	91.38	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	199	--	
	8/20/2001	NP	100.70	10.66	90.04	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	140	--	
	11/19/2001	NP	100.70	10.46	90.24	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	360	--	
	2/19/2002	NP	100.70	8.86	91.84	70	--	ND<0.50	1.1	ND<0.50	1.5	98	--	
	6/20/2002	--	100.70	9.90	90.80	140	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,700	--	
	8/21/2002	NP	100.70	10.50	90.20	1,200	--	ND<10	ND<10	ND<10	13	1,300	--	
	11/19/2002	NP	100.70	10.19	90.51	1,100	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	1,700	--	
	02/12/2003	NP	100.70	8.71	91.99	<5,000	--	<50	<50	<50	<50	2,300	--	
	05/14/2003	NP	100.70	8.61	92.09	1,800	--	<5.0	<5.0	<5.0	<5.0	4,900 J	0.80	
	08/13/2003	NP	100.70	10.15	90.55	1,600	--	<50	63	<50	130	4,700	1.50	
	11/13/2003	NP	100.70	11.32	89.38	1,500 R	--	<50	<50	<50	<50	3,900	1.20	
	02/12/2004	NP	100.70	8.76	91.94	450	--	<12	<12	<12	<12	800	0.90 h	

Table 1

**Groundwater Elevation and Analytical Data**  
 ARCO Service Station No. 134<sup>1</sup>  
 8505 Gravestine Highway, Cottati, CA

Well Number	Date Sampled	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments	
MW-8	05/14/2004	NP	100.70	9.45	91.25	120	--	<12	<12	<12	<12	250	1.10		
	08/17/2004	NP	100.70	10.38	90.32	51	--	<0.50	<0.50	<0.50	<0.50	33	2.10		
	11/12/2004	NP	100.70	9.79	90.91	<50	UJ	--	<0.50	<0.50	<0.50	<50 UJ	0.60		
	02/07/2005	NP	100.70	8.75	91.95	<50	--	<0.50	<0.50	<0.50	<0.50	9.7	1.10		
	05/10/2005	NP	100.70	8.71	91.99	<50	--	<0.50	<0.50	<0.50	<0.50	10	1.30		
	08/22/2005	NP	100.70	9.36	91.34	<50	UJ	--	<0.50	UJ	<0.50	UJ	2.4 J	1.40	
MW-9	3/26/1996	--	101.6	8.42	93.18	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	6/26/1996	--	101.6	9.49	92.11	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	9/24/1996	--	101.6	10.74	90.86	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	12/15/1996	--	101.6	9.44	92.16	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	4/17/1997	--	101.6	9.61	91.99	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	6/20/1997	--	101.6	10.22	91.38	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	58	--	
	9/4/1997	--	101.6	11.19	90.41	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	12/2/1997	--	101.6	9.95	91.65	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	2/23/1998	--	101.6	6.50	95.10	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	5/29/1998	--	101.6	8.89	92.71	ND<500	--	ND<5	ND<5	ND<5	ND<5	ND<5	150	--	
	9/2/1998	--	101.6	9.98	91.62	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	11/20/1998	--	101.6	10.84	90.76	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	2/4/1999	--	101.6	8.88	92.72	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	5/4/1999	--	101.6	9.01	92.59	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	220	--	
	8/5/1999	--	101.6	10.75	90.85	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	280	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	--	
	11/18/1999	--	101.6	11.30	90.30	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	440	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	--	
	3/21/2000	--	101.6	8.50f	93.10	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--		
	6/20/2000	--	101.6	10.51	91.09	ND<50	--	ND<0.5	0.9	ND<0.5	ND<1	370(390)d	--		
	8/17/2000	--	101.6	12.35	89.25	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	320(360)d	--		
	11/14/2000	NP	101.6	11.79	89.81	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	297	--		
	2/20/2001	NP	101.6	9.42	92.18	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	137	--		
	5/4/2001	NP	101.6	10.37	91.23	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	126	--		
	8/20/2001	NP	101.6	11.71	89.89	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	150	--		
	11/19/2001	NP	101.6	11.60	90.00	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150	--		
	2/19/2002	NP	101.6	9.95	91.65	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	31	--		

Table 1

**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravestine Highway, Cotati, CA**

Well Number	Date Sampled	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-9	6/20/2002	--	101.6	11.00	90.60	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	70	--
	8/21/2002	NP	101.6	11.55	90.05	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	63	--
	11/19/2002	NP	101.6	11.45	90.15	69	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	100	--
	02/12/2003	NP	101.60	9.93	91.67	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	3.4	--
	05/14/2003	NP	101.60	9.73	91.87	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	4.4 J	1.30
	08/13/2003	NP	101.60	11.25	90.35	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	42	2.30
	11/13/2003	NP	101.60	12.48	89.12	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	49	1.70
	02/12/2004	NP	101.60	9.83	91.77	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	8.0	1.80 h
	06/14/2004	NP	101.60	10.58	91.02	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	21	1.20
	08/17/2004	NP	101.60	11.52	90.08	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	17	2.20
	11/12/2004	NP	101.60	11.08	90.52	<50	UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	39 J	0.70
	02/07/2005	NP	101.60	9.85	91.75	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	0.80
	05/10/2005	NP	101.60	9.82	91.78	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	0.90
	08/22/2005	NP	101.60	10.42	91.18	<50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	1.4 J	1.80
	08/25/2005	P	101.60	20.98	80.62	--	--	--	--	--	--	--	--	1.50
MW-10	3/26/1996	--	102.43	9.11	93.32	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	--
	6/26/1996	--	102.43	11.09	91.34	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--
	9/24/1996	--	102.43	13.03	89.40	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--
	12/15/1996	--	102.43	12.64	89.79	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4	--
	4/17/1997	--	102.43	10.17	92.26	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--
	6/20/1997	--	102.43	11.85	90.58	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3	--
	9/4/1997	--	102.43	13.65	88.78	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5	--
	7/2/1997	--	102.43	12.24	90.19	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	5
	2/23/1998	--	102.43	8.20	94.23	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9	--
	5/29/1998	--	102.43	9.06	93.37	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4	--
	9/2/1998	--	102.43	11.15	91.28	ND<50	--	0.7	ND<0.5	0.6	ND<0.5	ND<0.5	ND<3	--
	11/20/1998	--	102.43	12.04	90.39	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	--
	2/4/1999	--	102.43	10.63	91.80	ND<50	--	0.5	ND<0.5	0.5	ND<0.5	ND<0.5	7	--
	5/4/1999	--	102.43	9.75	92.68	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	--
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	--
	8/5/1999	--	102.43	11.89	90.54	ND<50	--	3.2	ND<0.5	ND<0.5	1.9	12	--	--
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	--
	11/18/1999	--	102.43	13.03	89.40	ND<50	--	1.8	0.5	ND<0.5	ND<1	12	--	--

Table 1

**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravestein Highway, Cottati, CA**

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MV-10	2/18/2000	--	102.43	10.28	92.15	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	29	--
	6/20/2000	--	102.43	12.70	89.73	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	37	--
	8/17/2000	--	102.43	14.63	87.80	ND<50	--	0.7	ND<0.5	0.6	3.3	21	--	
	11/14/2000	--	102.43	14.25	88.18	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	42.8	--
	2/20/2001	--	102.43	11.87	90.56	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.56	30	--
	5/4/2001	--	102.43	12.55	89.88	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16.6	--
	8/20/2001	--	102.43	14.24	88.19	130	--	11	6.6	1.3	12	31	--	
	11/19/2001	--	102.43	14.10	88.33	ND<50	--	0.57	0.89	ND<0.50	1.3	36	--	
	2/19/2002	--	102.43	11.93	90.50	ND<50	--	ND<0.50	0.91	ND<0.50	1.7	22	--	
	6/20/2002	--	102.43	13.13	89.30	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	63	--
	8/21/2002	P	102.43	13.88	88.55	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	49	--
	11/19/2002	P	102.43	14.04	88.39	58	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	79	--
	2/12/2003	P	102.43	11.79	90.64	130	--	<0.50	<0.50	<0.50	<0.50	<0.50	88	--
	5/14/2003	P	102.43	11.86	90.57	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	78 J	3.0
	8/13/2003	P	102.43	13.52	88.91	55	--	<1.2	<1.2	<1.2	<1.2	<1.2	82	4.70
	11/13/2003	P	102.43	14.43	88.00	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	4.6	1.60
	2/12/2004	P	102.43	12.49	89.94	51	--	<0.50	<0.50	<0.50	<0.50	<0.50	77	4.60 h
	5/14/2004	P	102.43	12.32	90.11	<50	--	<2.5	<2.5	<2.5	<2.5	<2.5	64	3.80
	8/17/2004	P	102.43	13.46	88.97	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	20	2.50
	11/12/2004	P	102.43	13.33	89.10	<50 UJ	--	<0.50	<0.50	<0.50	<0.50	<0.50	87 J	3.40
	2/20/2005	P	102.43	12.75	89.68	<50	--	<2.5	<2.5	<2.5	<2.5	<2.5	44	3.10
	5/10/2005	P	102.43	12.00	90.43	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.60
	8/22/2005	P	102.43	12.37	90.06	<50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	2.9 J	0.90
SV-1	11/19/2001	--	--	13.43	--	130	--	13	ND<0.50	ND<0.50	0.85	1.100	--	
	2/19/2002	NP	--	11.37	--	1,300	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2,300	--
	6/20/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	8/21/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	--	--	13.30	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
	5/14/2003	--	--	--	--	--	--	--	--	--	--	--	--	
	8/13/2003	--	--	12.75	--	--	--	--	--	--	--	--	--	
	11/13/2003	P	--	14.05	--	240	--	<2.5	<2.5	<2.5	<2.5	<2.5	96	1.10
	2/12/2004	--	--	11.27	--	--	--	--	--	--	--	--	--	

Table 1

**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravestine Highway, Cotati, CA**

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
SV-1	05/14/2004	--	--	12.25	--	--	--	--	--	--	--	--	--	--
	08/17/2004	--	--	13.12	--	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	NP	--	12.81	--	160 J	--	<0.50	<0.50	<0.50	<0.50	<50 JJ	0.20	--
	02/07/2005	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/10/2005	--	--	10.77	--	--	--	--	--	--	--	--	--	Not Sampled
	<b>08/22/2005</b>	--	--	<b>12.50</b>	--	--	--	--	--	--	--	--	--	<b>Not Sampled</b>
SV-2	11/19/2001	--	--	13.22	--	23,000	--	5,500	ND<50	1,000	180	6,900	--	--
	2/19/2002	NP	--	11.20	--	10,000	--	2,000	ND<25	590	340	4,300	--	--
	6/20/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	8/21/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	--	--	13.33	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	02/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/14/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/13/2003	--	--	12.50	--	--	--	--	--	--	--	--	--	--
	11/13/2003	P	--	14.13	--	14,000	--	3,400 J	<100	190	<100	9,800	1.30	--
	02/12/2004	--	--	11.22	--	--	--	--	--	--	--	--	--	--
	05/14/2004	--	--	11.82	--	--	--	--	--	--	--	--	--	--
	08/17/2004	--	--	12.79	--	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	NP	--	12.64	--	7,000	--	3,200	<50	66	<50	480	0.10	--
	02/07/2005	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/10/2005	--	--	10.93	--	--	--	--	--	--	--	--	--	Not Sampled
	<b>08/22/2005</b>	--	--	<b>11.90</b>	--	--	--	--	--	--	--	--	--	<b>Not Sampled</b>
SV-3	11/19/2001	--	--	12.21	--	83	--	8.2	ND<0.50	ND<0.50	ND<0.50	1,400	--	--
	2/19/2002	NP	--	10.77	--	30,000	--	24	0.57	ND<0.50	1.1	2,200	--	--
	6/20/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	8/21/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	--	--	11.99	--	NS	--	--	--	--	--	--	--	Not sampled
	02/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/14/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/13/2003	--	--	12.18	--	--	--	--	--	--	--	--	--	--
	11/13/2003	P	--	12.71	--	80	--	<2.5	<2.5	<2.5	<2.5	9.8	0.30	--
	02/12/2004	--	--	10.60	--	--	--	--	--	--	--	--	--	--

Table 1

**Groundwater Elevation and Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravenstein Highway, Cottati, CA**

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
SV-3	05/14/2004	--	--	11.56	--	--	--	--	--	--	--	--	--	--
	08/17/2004	--	--	12.51	--	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	NP	--	11.61	--	<50	--	<0.50	<0.50	<0.50	<0.50	12 J	0.20	
	02/07/2005	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/10/2005	--	--	10.36	--	--	--	--	--	--	--	--	--	Not Sampled
	<b>08/22/2005</b>	--	--	<b>11.80</b>	--	--	--	--	--	--	--	--	--	<b>Not Sampled</b>
SV-4	11/19/2001	--	--	12.40	--	NS	--	NS	NS	NS	NS	NS	--	0.04 ft free product present, Not sampled
	2/19/2002	--	--	10.75	--	NS	--	NS	NS	NS	NS	NS	--	Sheen, Not sampled
	6/20/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	8/21/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	--	--	11.89	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	02/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	12.52	--	--	--	--	--	--	--	--	--	
	11/13/2003	P	--	13.66	--	50,000	--	8,400	<100	5,400	17,000	1,500	1.20	
	02/12/2004	--	--	10.62	--	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	11.68	--	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	12.62	--	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	NP	--	11.69	--	36,000 J	--	8,100 J	<100	3,400 J	3,400 J	1,100 J	0.20	
	02/07/2005	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/10/2005	--	--	10.43	--	--	--	--	--	--	--	--	--	Not Sampled
	<b>08/22/2005</b>	--	--	<b>11.83</b>	--	--	--	--	--	--	--	--	--	<b>Not Sampled</b>

**Table 1**

**Groundwater Elevation and Analytical Data**  
ARCO Service Station No. 1341  
8505 Gravestine Highway, Cotati, CA

TPH = Total petroleum hydrocarbons

MTBE = Methyl tertiary butyl ether

µg/L = Micrograms per liter

P = Purge

NP = No Purge

MSL = Mean Sea Level

TOC = Top of Casing

NS = Not sampled

a = Chromatogram Pattern: Unidentified Hydrocarbons C6-C11

b = Chromatogram Pattern: Weathered Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12

c = This result is from a second dilution of the sample.

d = Confirmed by using EPA Method 8260

e = Depth to water measured 11/20/98.

f = Depth to water measured 2/18/00.

g = Well could not be opened.

h = Analyzed by gasoline range organics (GRO) beginning first quarter 2004 (method 8015B)

Data Qualifier Definitions:

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample i.e., the presence or absence of the analyte cannot be verified) or the analyte identification has been rejected (i.e., the presence of the analyte cannot be verified).

Source : The data within this table collected prior to August 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 2

**Fuel Oxygenates Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravestine Highway, Cottati, CA**

Well Number	Date Sampled	Ethanol ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	MtBE ( $\mu\text{g/L}$ )	DPE ( $\mu\text{g/L}$ )	EtBE ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	1,2-DCA ( $\mu\text{g/L}$ )	EDB ( $\mu\text{g/L}$ )	Comments
AS-1	02/12/2003	--	--	--	--	--	--	--	--	Not Sampled
	05/14/2003	--	--	--	--	--	--	--	--	Not Sampled
	08/13/2003	--	--	--	--	--	--	--	--	Not Sampled
	11/13/2003	<50,000	<10,000	600	<50	<50	<50	<25	<25	
	02/12/2004	--	--	--	--	--	--	--	--	Not Sampled
	05/14/2004	--	--	--	--	--	--	--	--	Not Sampled
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	<10,000	<10,000	UJ	670 J	<100	<100	<50	<50	
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	--	--	--	--	--	--	--	--	
	08/22/2005	--	--	--	--	--	--	--	--	
<hr/>										
MW-1A	02/12/2003	<4,000	<2,000	950	<50	<50	<50	<50	<50	
	05/14/2003	<50,000	<10,000	UJ	670 J	<500	<500	<500	<500	
	08/13/2003	<50,000	<10,000	UJ	840	<500	<500	<500	<250	<250
	11/13/2003	<20,000	<4,000	600	<200	<200	<200	<100	<100	
	02/12/2004	<25,000	<5,000	430	<250	<250	<250	<120	<120	
	05/14/2004	<50,000	<10,000	480	<500	<500	<500	<250	<250	
	08/17/2004	<25,000	<5,000	430	<250	<250	<250	<120	<120	
	11/12/2004	<10,000	<10,000	UJ	530 J	<100	<100	<50	<50	
	02/07/2005	<1,000	480	360	<10	<10	<10	<5,0	<5,0	
	05/10/2005	<50,000	<10,000	UJ	370	<250	<250	<250	<250	
	08/22/2005	<50,000	<10,000	UJ	370 J	<250 UJ	<250 UJ	<250 UJ	<250 UJ	
<hr/>										
MW-2	02/12/2003	<4,000	<2,000	490	<50	<50	<50	<50	<50	
	05/14/2003	<5,000	<1,000	UJ	600 J	<50	<50	<50	<50	
	08/13/2003	<5,000	<1,000	700	<50	<50	<50	<25	<25	
	11/13/2003	<5,000	<1,000	540	<50	<50	<50	<25	<25	
	02/12/2004	<1,000	560	220	<10	<10	<10	<5,0	<5,0	
	05/14/2004	<10,000	<2,000	220	<100	<100	<100	<50	<50	
	08/17/2004	<5,000	<1,000	260	<50	<50	<50	<25	<25	
	11/12/2004	<2,500	87,000	J	180	<25	<25	<12	<12	
	02/07/2005	<1,000	910	78	<10	<10	<10	<5,0	<5,0	
	05/10/2005	<500	370	120	<2.5	<2.5	<2.5	<2.5	<2.5	
	08/22/2005	<500	UJ	510 J	<2.5 UJ	3.6 J	<2.5 UJ	<2.5 UJ	<2.5 UJ	

Table 2

**Fuel Oxygenates Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravestine Highway, Cottati, CA**

Well Number	Date Sampled	Ethanol ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	MtBE ( $\mu\text{g/L}$ )	DPE ( $\mu\text{g/L}$ )	EtBE ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	1,2-DCA ( $\mu\text{g/L}$ )	EDB ( $\mu\text{g/L}$ )	Comments
MW-3	02/12/2003	<40	<20	0.66	<0.50	<0.50	<0.50	<0.50	--	--
	05/14/2003	<100 UJ	<20 UJ	<0.50	<1.0	<1.0	<1.0	--	--	--
	08/13/2003	<500	<100	83	<5.0	<5.0	<5.0	<2.5	<2.5	
	11/13/2003	<1,000	<200	230	<10	<10	<10	<5.0	<5.0	
	02/12/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/14/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	08/17/2004	<100	<20	30	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100	<200 UJ	120 J	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/07/2005	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	23 J	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	
MW-4	02/12/2003	<40	<20	220	<0.50	<0.50	1.1	--	--	--
	05/14/2003	<2,000 UJ	<400 UJ	700 J	<20	<20	<20	--	--	--
	08/13/2003	<100	<20	1.2	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/13/2003	<100	<20	12	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/12/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/14/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	08/17/2004	<100	<20	11	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100 UJ	<20 UJ	0.81 J	<1.0 UJ	<1.0 UJ	<1.0 UJ	<0.50 UJ	<0.50 UJ	
	02/07/2005	<100	<20	3.1	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	
MW-5	02/12/2003	--	--	--	--	--	--	--	--	Well Inaccessible
	05/14/2003	--	--	--	--	--	--	--	--	Well Inaccessible
	08/13/2003	--	--	--	--	--	--	--	--	Well Inaccessible
	11/13/2003	--	--	--	--	--	--	--	--	Well Inaccessible
	02/12/2004	--	--	--	--	--	--	--	--	Well Inaccessible
	05/14/2004	<2,000	<400	370	<20	<20	<10	<10	<10	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	--	--	--	--	--	--	--	--	Not Sampled
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	<1,000 UJ	<200	320	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-6	02/12/2003	<400	<200	<5.0	<5.0	<5.0	<5.0	--	--	

Table 2

Fuel Oxygenates Analytical Data  
 ARCO Service Station No. 1341  
 8505 Gravestine Highway, Cottati, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
MW-6	05/14/2003	<1,000 UJ	1,000 J	44 J	<10	<10	<10	--	--	--
	08/13/2003	<500	<100	21	<5.0	<5.0	<5.0	<2.5	<2.5	
	11/13/2003	<500	<100	12	<5.0	<6.0	<5.0	<2.5	<2.5	
	02/12/2004	<100	<20	3.9	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/14/2004	<500	<100	9.8	<5.0	<5.0	<5.0	<2.5	<2.5	
	08/17/2004	<100	<20	6.4	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<500	<100 UJ	31 J	<5.0	<5.0	<5.0	<2.5	<2.5	
	02/07/2005	<100	<20	4.1	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100 UJ	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	11 J	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	
MW-7	02/12/2003	--	--	--	--	--	--	--	--	--
	05/14/2003	<10,000 UJ	<4,000	1,100	<100	<100	<100	--	--	--
	08/13/2003	--	--	--	--	--	--	--	--	--
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	<2,500	<500	530	<25	<25	<25	<12	<12	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	--	--	--	--	--	--	--	--	Not Sampled
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	<200 UJ	<40	140	<1.0	<1.0	<1.0	<1.0	<1.0	
	08/22/2005	--	--	--	--	--	--	--	--	
MW-8	02/12/2003	<4,000	<2,000	2,300	<50	<50	<50	--	--	--
	05/14/2003	<10,000 UJ	<2,000 UJ	4,900 J	<100	<100	<100	--	--	--
	08/13/2003	<10,000	<2,000	4,700	<100	<100	<100	<50	<50	
	11/13/2003	<10,000	<2,000	3,900	<100	<100	<100	<50	<50	
	02/12/2004	<2,500	2,200	800	<25	<25	<25	<12	<12	
	05/14/2004	<2,500	2,800	250	<25	<25	<25	<12	<12	
	08/17/2004	<100	3,500	33	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100	1,600 J	<50 UJ	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/07/2005	<100	<20	9.7	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100 UJ	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	2.4	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	
MW-9	02/12/2003	<40	<20	3.4	<0.50	<0.50	<0.50	--	--	--
	05/14/2003	<100 UJ	<20 UJ	4.4 J	<1.0	<1.0	<1.0	--	--	--

Table 2

Fuel Oxygenates Analytical Data  
 ARCO Service Station No. 1341  
 8505 Gravestine Highway, Cottati, CA

Well Number	Date Sampled	Ethanol ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	MtBE ( $\mu\text{g/L}$ )	DPE ( $\mu\text{g/L}$ )	EtBE ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	1,2-DCA ( $\mu\text{g/L}$ )	EDB ( $\mu\text{g/L}$ )	Comments
MW-9	08/13/2003	<200	<40	42	15	<2.0	<2.0	<1.0	<1.0	
	11/13/2003	<100	<20	49	6.4	<1.0	<1.0	<0.50	<0.50	
	02/12/2004	<100	<20	8.0	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/14/2004	<100	<20	21	11	<1.0	<1.0	<0.50	<0.50	
	08/17/2004	<100	<20	17	23	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100 UJ	<20 UJ	39 J	25 J	<1.0 UJ	<1.0 UJ	<0.50 UJ	<0.50 UJ	
	02/07/2005	<100	<20	2.5	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100 UJ	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	1.4 J	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	
	08/25/2005	--	--	--	--	--	--	--	--	
MW-10	02/12/2003	<40	45	88	<0.50	<0.50	2.3	--	--	
	05/14/2003	<200 UJ	<40 UJ	78 J	<2.0 UJ	<2.0 UJ	<2.0 UJ	--	--	
	08/13/2003	<250	<50	82	<2.5	<2.5	<2.5	<1.2	<1.2	
	11/13/2003	<100	<20	4.6	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/12/2004	<100	40	77	<1.0	<1.0	1.8	<0.50	<0.50	
	05/14/2004	<500	<100	64	<5.0	<5.0	<5.0	<2.5	<2.5	
	08/17/2004	<100	<20	20	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100	48 J	87 J	<1.0	<1.0	1.9	<0.50	<0.50	
	02/07/2005	<500	<100	44	<5.0	<5.0	<5.0	<2.5	<2.5	
	05/10/2005	<100 UJ	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	2.9 J	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	
SV-1	02/12/2003	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	--	--	--	--	--	--	
	11/13/2003	<500	9,300	96	<5.0	<5.0	<5.0	<2.5	<2.5	
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	--	--	--	--	--	--	
	11/12/2004	<100	16,000 J	<50 UJ	1.0	<1.0	1.4	<0.50	<0.50	
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	--	--	--	--	--	--	--	--	
	08/22/2005	--	--	--	--	--	--	--	--	
SV-2	02/12/2003	--	--	--	--	--	--	--	--	

Table 2

**Fuel Oxygenates Analytical Data**  
**ARCO Service Station No. 1341**  
**8505 Gravestine Highway, Cottati, CA**

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DPE (µg/L)	EIBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
SV-2	05/14/2003	--	--	--	--	--	--	--	--	--
	08/13/2003	--	--	--	--	--	--	--	--	--
	11/13/2003	<20,000	<4,000	9,800	<200	<200	200	<100	<100	
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	<10,000	8,700	480	<100	<100	<100	<50	<50	
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	--	--	--	--	--	--	--	--	
	<b>08/22/2005</b>	--	--	--	--	--	--	--	--	
SV-3	02/12/2003	--	--	--	--	--	--	--	--	--
	05/14/2003	--	--	--	--	--	--	--	--	--
	08/13/2003	--	--	--	--	--	--	--	--	--
	11/13/2003	<500	2,100	9.8	<5.0	<5.0	<5.0	<2.5	<2.5	
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	<100	650 J	12 J	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	--	--	--	--	--	--	--	--	
	<b>08/22/2005</b>	--	--	--	--	--	--	--	--	
SV-4	02/12/2003	--	--	--	--	--	--	--	--	--
	05/14/2003	--	--	--	--	--	--	--	--	--
	08/13/2003	--	--	--	--	--	--	--	--	--
	11/13/2003	<20,000	<4,000	1,500	<200	<200	<200	<100	<100	
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	<20,000	<4,000	1,100 J	<200	<200	<200	<100	<100	
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	--	--	--	--	--	--	--	--	
	<b>08/22/2005</b>	--	--	--	--	--	--	--	--	

**Table 2**

**Fuel Oxygenates Analytical Data**  
ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

**NOTES:**

All fuel oxygenate compounds analyzed using EPA Method 8260B

DPE = Di-isopropyl ether  
ETBE = Ethyl tert butyl ether  
MTBE = Methyl tert-butyl ether  
NA = Data not available, not analyzed, or not applicable  
< = Less than laboratory reporting limit  
NS = Not Sampled  
TAME = tert-Amyl methyl ether  
µg/L = micrograms per liter  
TBA = tert-Butyl alcohol

**Table 3**

**Historical Volatile Organic Compound Data**  
**ARCO Service Station No. 1341**  
**8505 Gravenstein Highway, Cotati, CA**

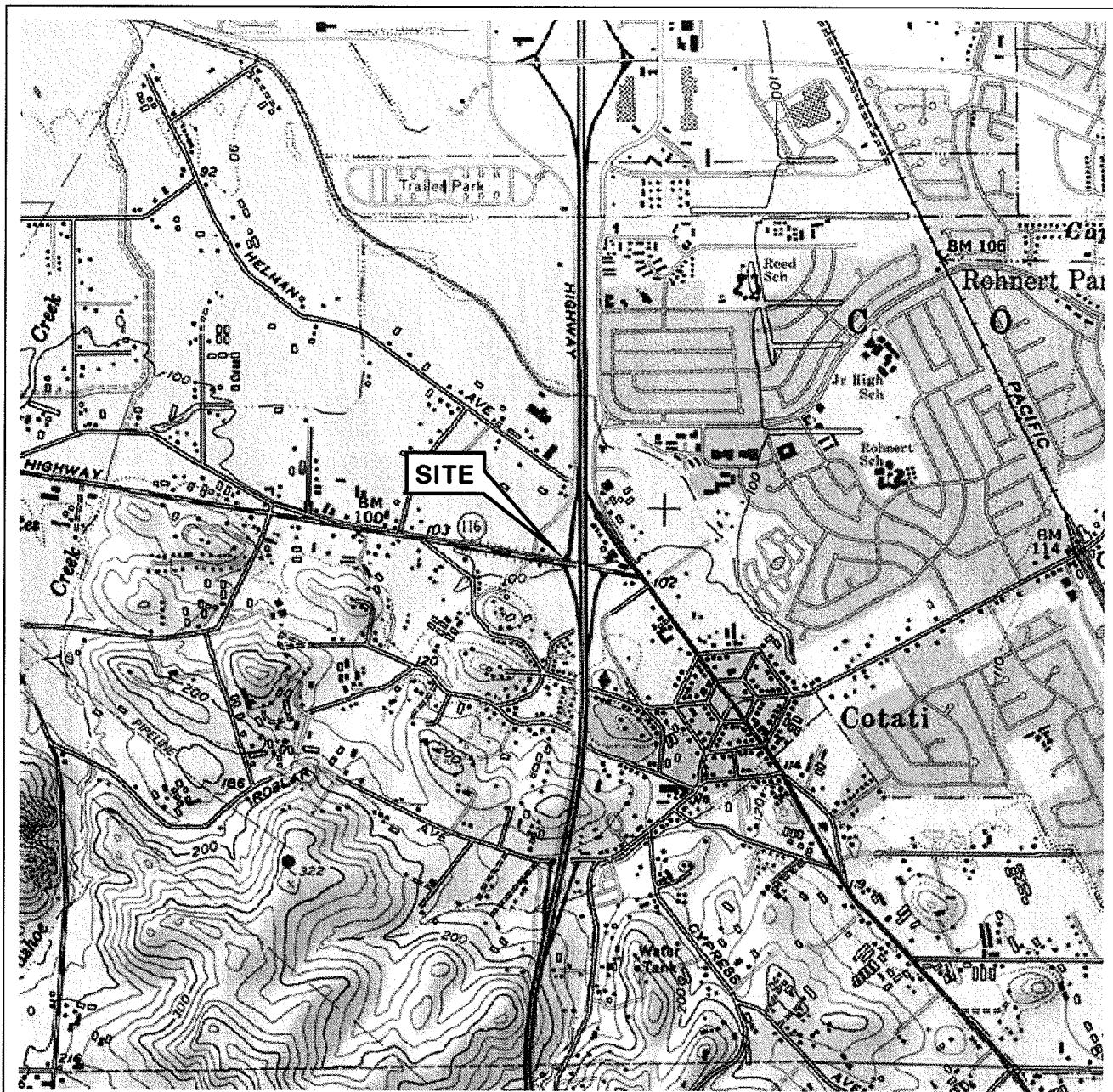
Well Number	Date Sampled	DCE12C ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	IPBZ ( $\mu\text{g/L}$ )	PBZN ( $\mu\text{g/L}$ )	TMB135 ( $\mu\text{g/L}$ )	TMB124 ( $\mu\text{g/L}$ )	BTBZS ( $\mu\text{g/L}$ )	CYMB ( $\mu\text{g/L}$ )	BTBZN ( $\mu\text{g/L}$ )	NAPH ( $\mu\text{g/L}$ )
MW-1A	8/5/1999	1	610	35	270	720	110	240	35	5	67	1,700
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	8/5/1999	<0.5	<50	<5	<2	<2	<2	<2	<2	<2	<2	17
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	8/5/1999	<1	<100	<10	47	130	<4	<4	<4	<4	24	310
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	8/5/1999	<0.5	<50	<5	<2	<2	<2	<2	<2	<2	<2	5
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	8/5/1999	<0.5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	8/5/1999	<2.5	<250	<25	<10	<10	<10	<10	<10	<10	<10	<10
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	8/5/1999	<0.5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

< = Not detected at or above specified laboratory method detection limit  
 NA = Not analyzed  
 ( $\mu\text{g/L}$ ) = Micrograms per liter

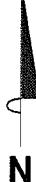
DCE12C = cis-1,2-Dichloroethene  
 TBA = tert-Butyl Alcohol  
 TAME = tert-Amyl Methyl Ether  
 IPBZ = Isopropyl-benzene  
 PBZN = n-Propyl-benzene  
 TMB135 = 1,3,5-Trimethyl-benzene  
 TMB124 = 1,2,4-Trimethyl-benzene  
 BTBZS = sec-Butyl-benzene  
 CYMP = 4-Isopropyl-toluene  
 NAPH = Napthalene

# FIGURES



0      1/4      1/2      3/4      1 MILE

SCALE 1: 24,000



SOURCE:

United States Geological Survey  
7.5 Minute Topographic Map:  
Cotati Quadrangle

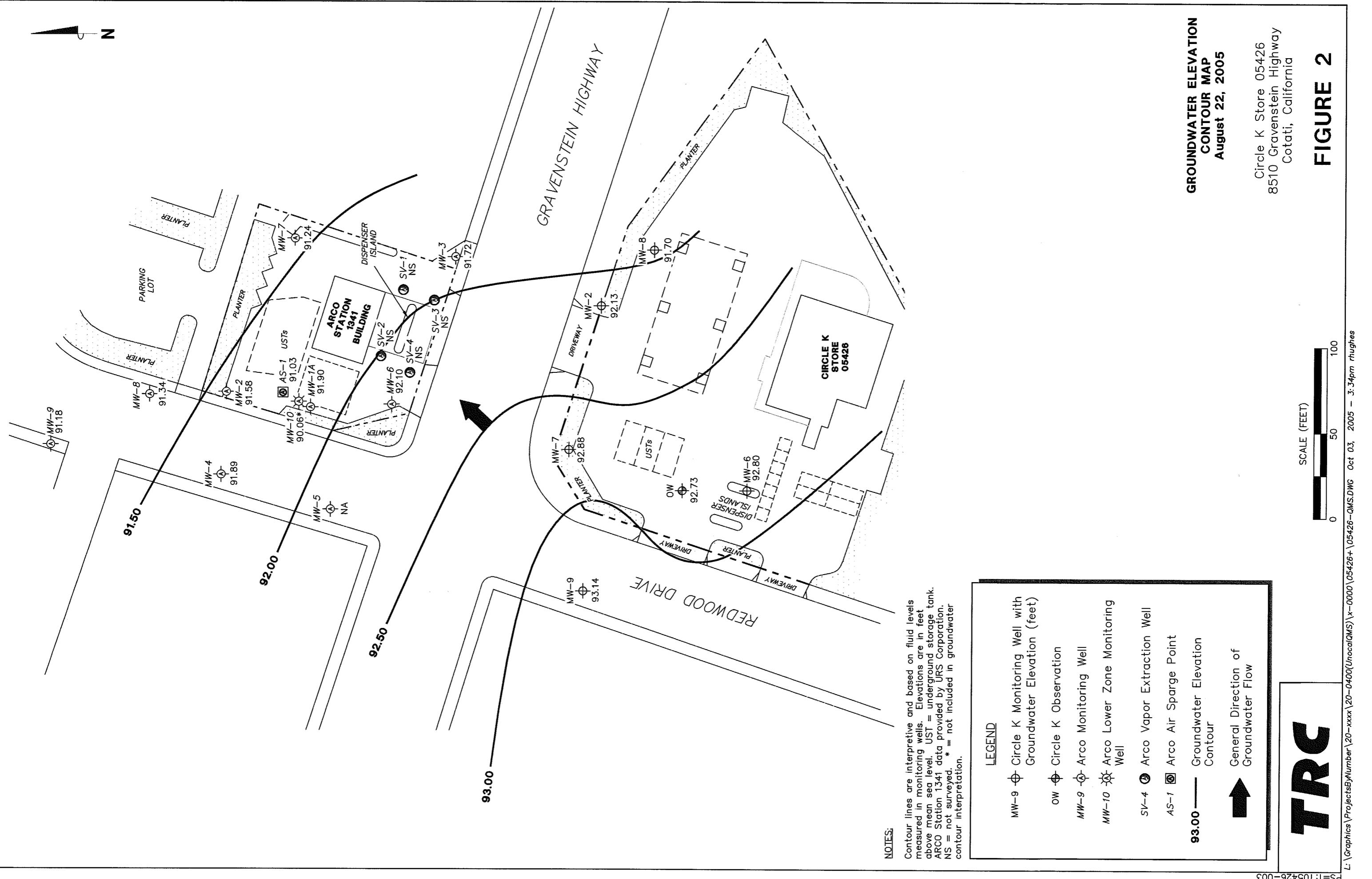
QUADRANGLE  
LOCATION

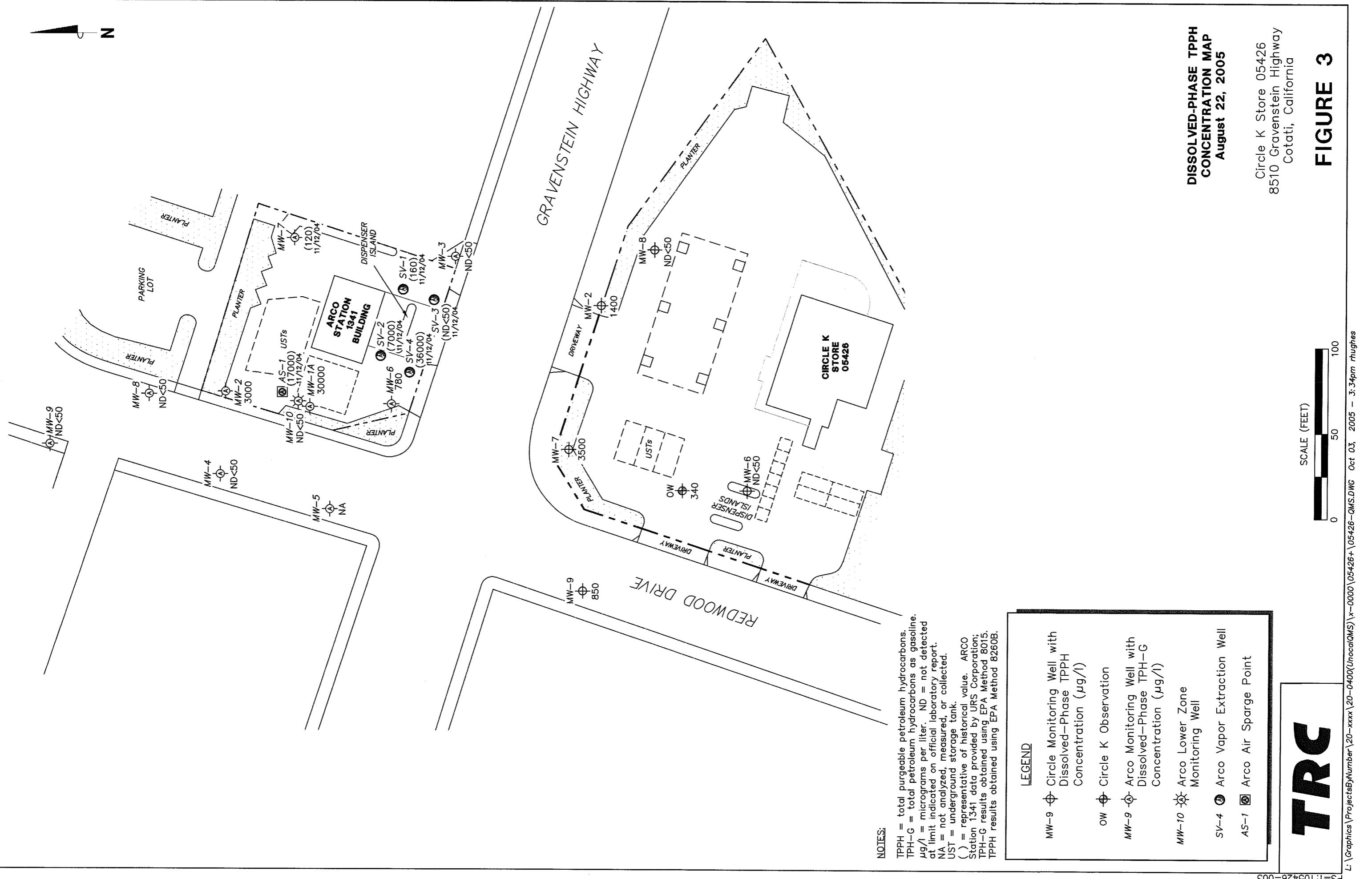
**VICINITY MAP**

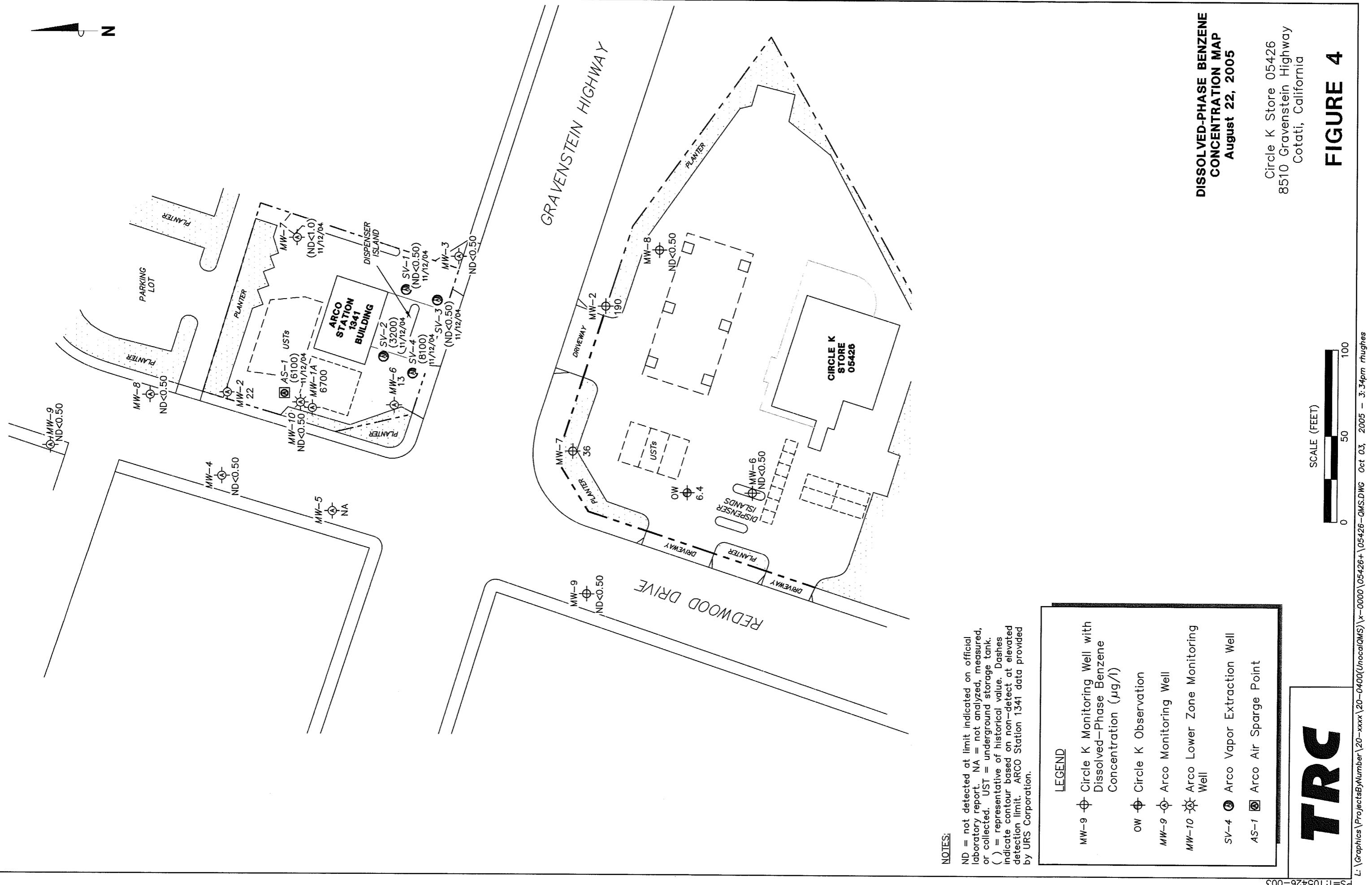
Circle K Store 05426  
8510 Gravenstein Highway  
Cotati, California

**TRC**

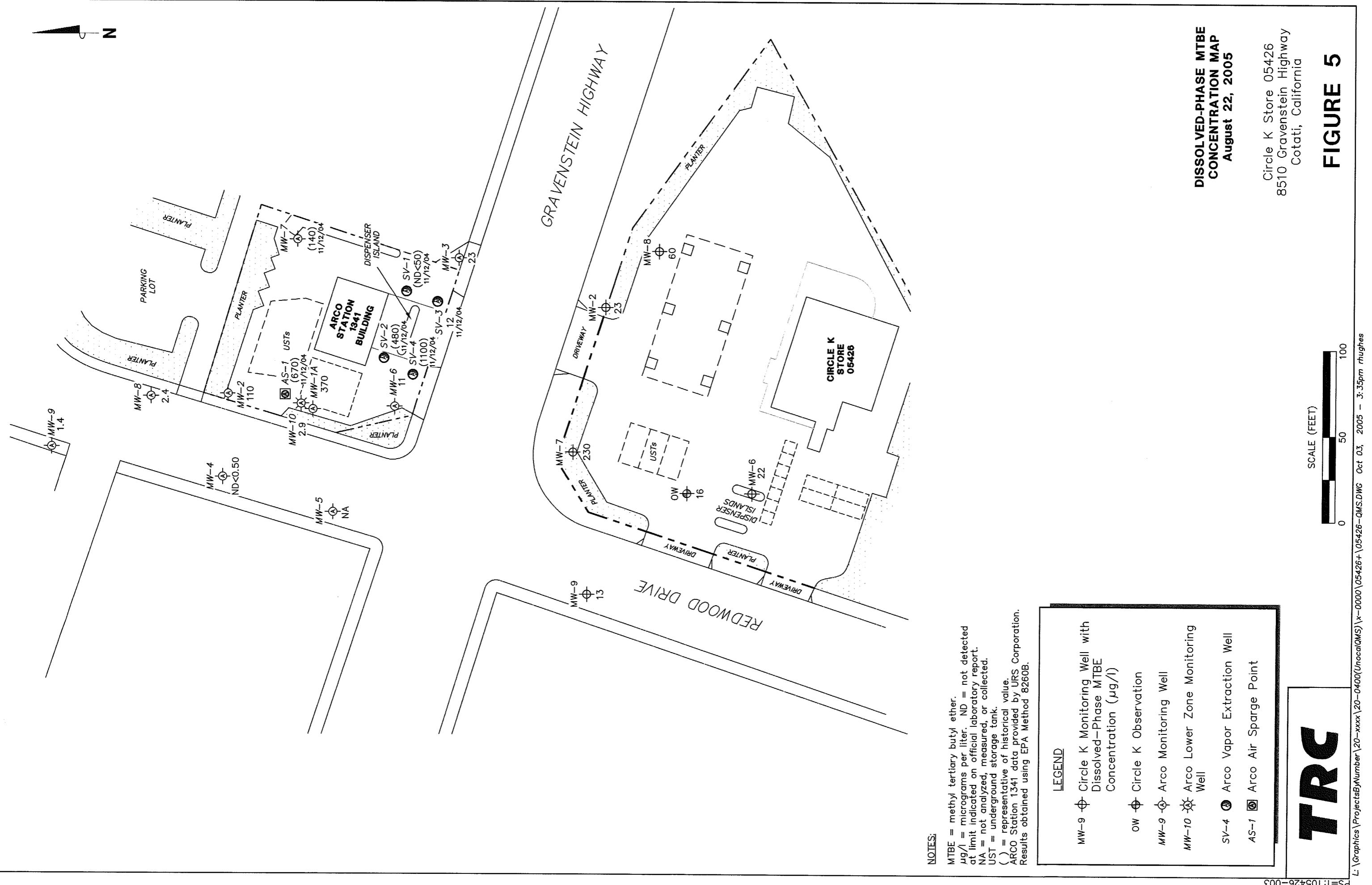
**FIGURE 1**

**FIGURE 2**

**FIGURE 3**

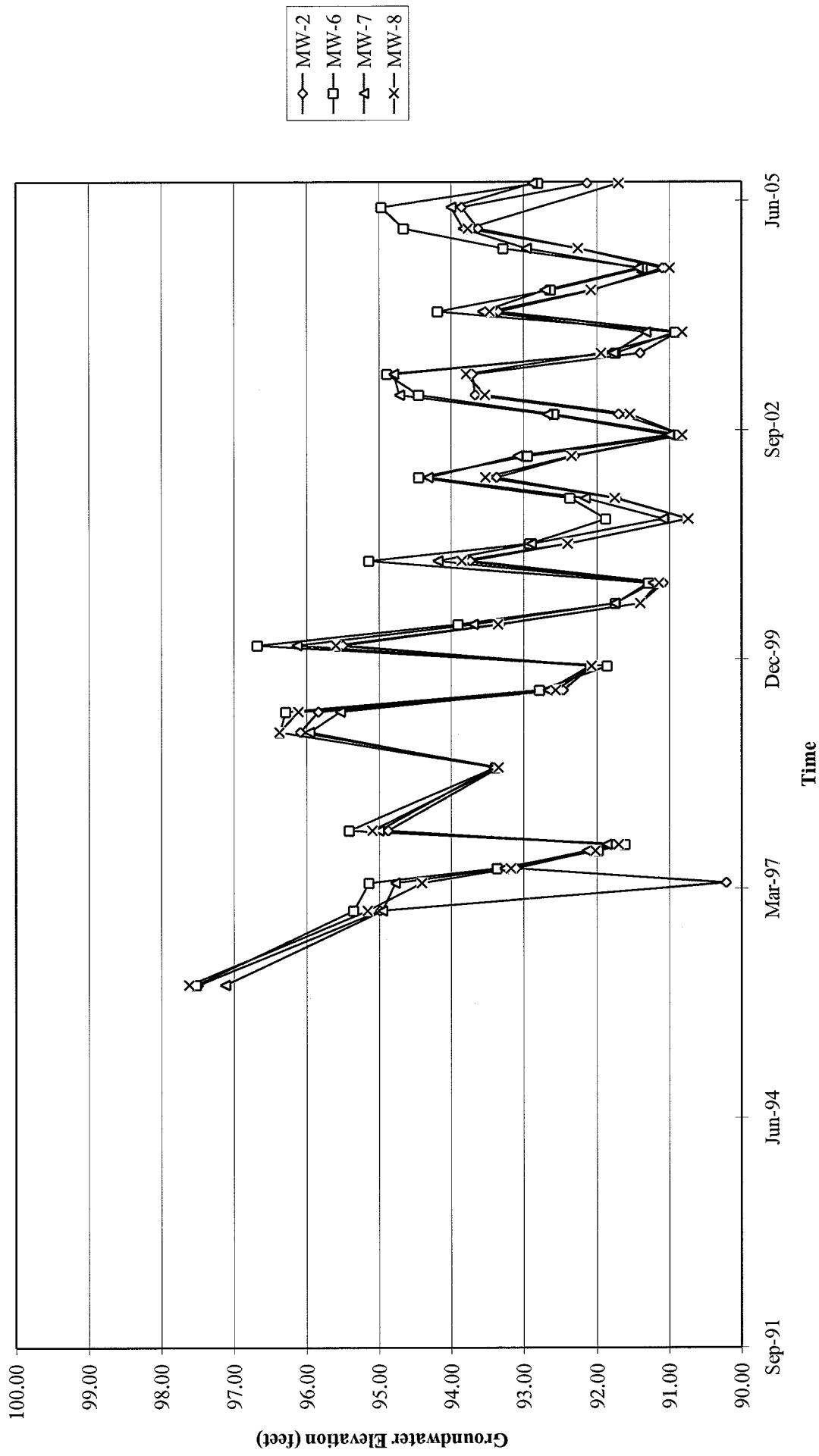
**FIGURE 4**

**FIGURE 5**

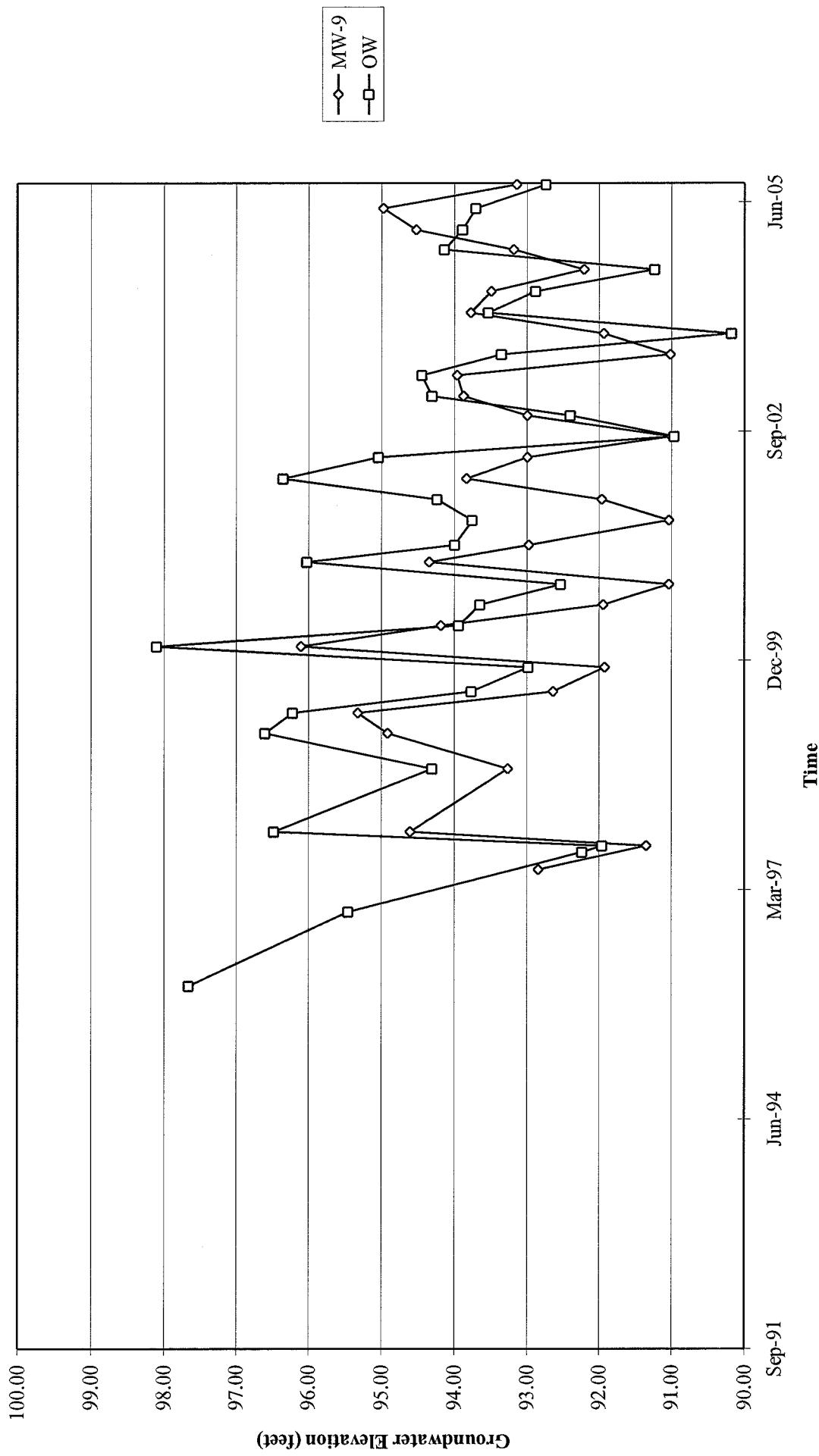


# GRAPHS

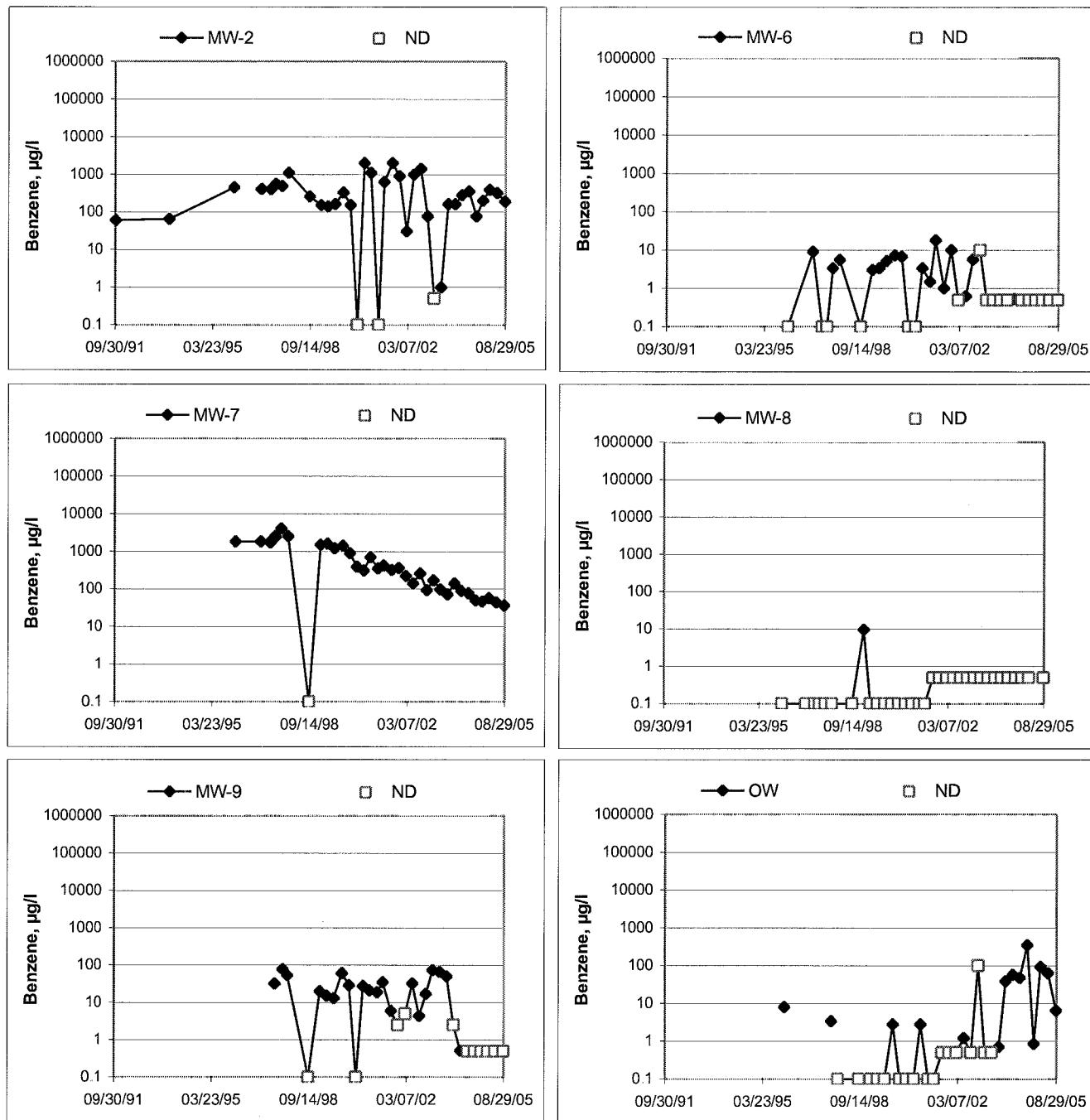
Groundwater Elevations vs. Time  
Circle K Store 05426



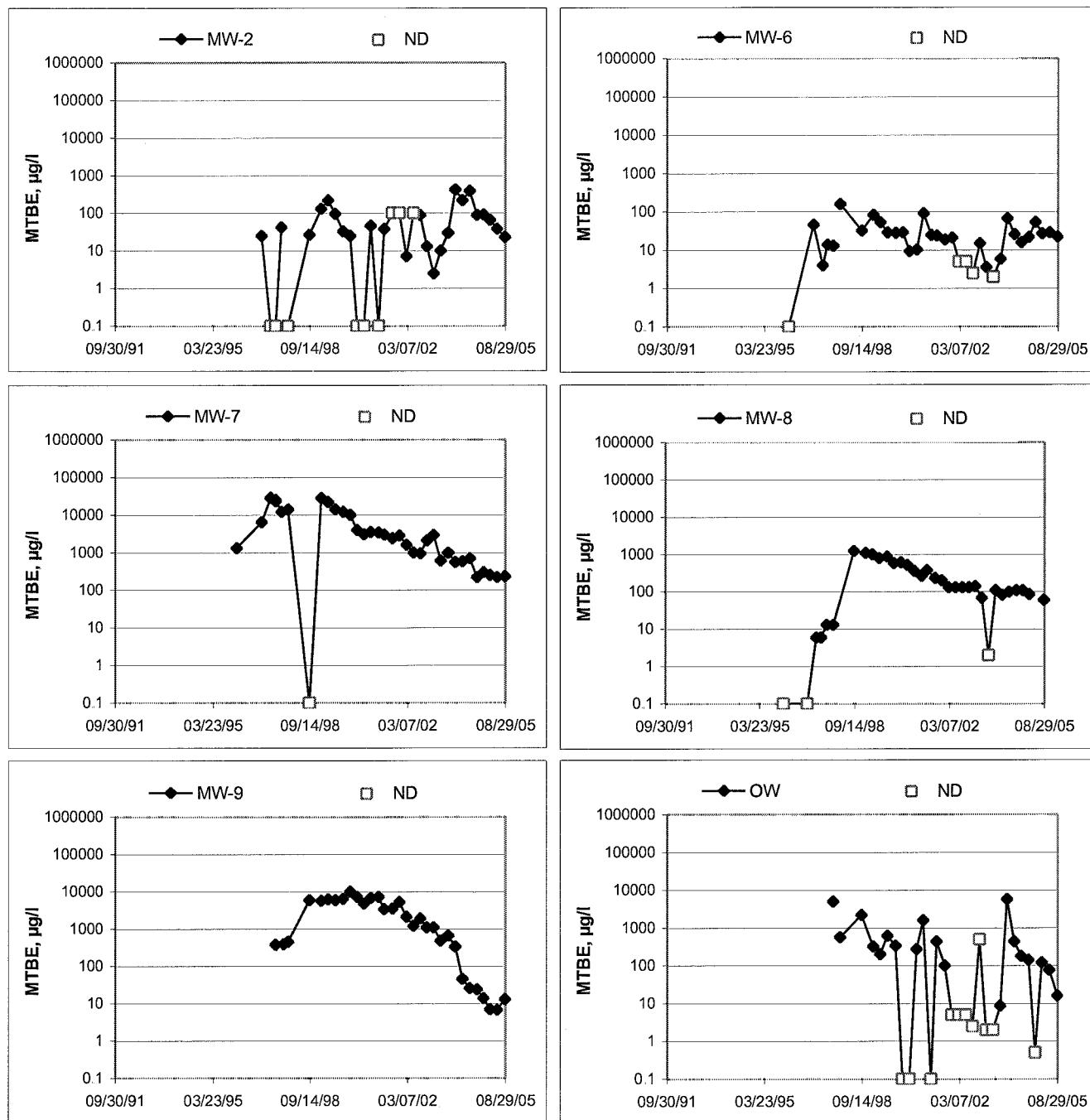
Groundwater Elevations vs. Time  
Circle K Store 05426



**Benzene Concentrations vs Time**  
Circle K Store 05426



**MTBE Concentrations vs Time**  
Circle K Store 05426



## GENERAL FIELD PROCEDURES

### **Groundwater Monitoring and Sampling Assignments**

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

### **Fluid Level Measurements**

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

### **Purging and Groundwater Parameter Measurement**

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

## **Groundwater Sample Collection**

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable,  $\frac{1}{2}$ -inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

## **Sequence of Gauging, Purging and Sampling**

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

## **Decontamination**

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

## **Exceptions**

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

# FIELD MONITORING DATA SHEET

**Technician:** Daniel

**Job #/Task #:** 41050001 | FA20

**Date:** 8-22-05

**Site # 05426**

**Project Manager** A. Collins

Page 7 of 1

## GROUNDWATER SAMPLING FIELD NOTES

Technician: Daniel

Site: 05426

Project No.: 4105000

Date: 8-22-05

Well No.: MW-9

Purge Method HB

Depth to Product (feet): 9,

1 PH & Water Recovered (gallons): 0

Casing Diameter (Inches):

1. Wall Volume (cubic feet) \_\_\_\_\_

Well Volume (gallons): \_\_\_\_\_

Depth to Water (feet): 9.50

Total Depth (feet): 17.49

Total Deposit (fees): 7.99

Water Column (feet): \_\_\_\_\_ (M) \_\_\_\_\_

80% Recharge Depth (feet): 110

Well No.: MW-6

Purge Method: HB

Depth to Water (feet): 11.45

Depth to Product (feet): 6

Total Depth (feet): 70.00

LPH & Water Recovered (gallons): 8

Water Column (feet): 8.50

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 13.17

1 Well Volume (gallons): \_\_\_\_\_

## GROUNDWATER SAMPLING FIELD NOTES

Technician: Daniel C.Site: 05426Project No.: 41050001Date: 8/22/05Well No.: MW-2Purge Method: HFB diaDepth to Water (feet): 10.89Depth to Product (feet): 0Total Depth (feet): 21.78LPH & Water Recovered (gallons): 0Water Column (feet): 10.93Casing Diameter (inches): 2"80% Recharge Depth (feet): 13.041 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1039 0757			2	985	20.7	6.67		
			4	921	21.2	6.66		
	1044		6	1150	20.6	6.67		
Static at Time Sampled			Total Gallons Purged			Time Sampled		
11.81			6	1052				

Comments: \_\_\_\_\_

Well No.: 0WPurge Method: DiaDepth to Water (feet): 11.05Depth to Product (feet): 0Total Depth (feet): 18.80LPH & Water Recovered (gallons): 0Water Column (feet): 7.75Casing Diameter (Inches): 24"80% Recharge Depth (feet): 12.601 Well Volume (gallons): 182

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0915			182	1055	20.4	6.92		
			364	1044	21.7	6.87		
	1010		546	1014	21.6	6.83		
Static at Time Sampled			Total Gallons Purged			Time Sampled		
11.05			546	1017				

Comments: \_\_\_\_\_

## GROUNDWATER SAMPLING FIELD NOTES

Site: 05426

Technician: Daniel

Project No.: 41050001

Date: 8-22-05

Well No.: MW-8

Purge Method \_\_\_\_\_ HB \_\_\_\_\_

Depth to Water (feet): 11.50

Depth to Product (feet): 6

Total Depth (feet): 19:27

I PH & Water Recovered (gallons): 0

Water Column (feet) 7.77

Casing Diameter (Inches) 2"

Water column (feet) \_\_\_\_\_  
2000 ft. 1000 ft. 500 ft. 13.05

Casing Diameter (inches) \_\_\_\_\_ }  
1 Well Volume (gallons) \_\_\_\_\_ }

Well No.: MW-7

Purge Method: HB

Depth to Water (feet): 10.94

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 20.01

LPH & Water Recovered (gallons) 0

Water Column (feet): 9.13

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 12.77

1 Well Volume (gallons): 2



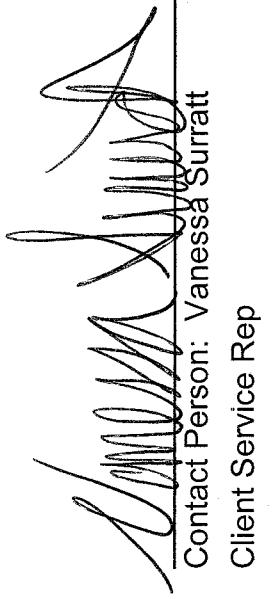
Date of Report: 09/22/2005

Anju Farfan

TRC Alton Geoscience  
21 Technology Drive  
Irvine, CA 92618-2302  
RE: 05426  
BC Lab Number: 0508382

Enclosed are the results of analyses for samples received by the laboratory on 08/22/05 22:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



A handwritten signature in black ink, appearing to read "Vanessa Surratt".

Contact Person: Vanessa Surratt  
Client Service Rep

\_\_\_\_\_  
Authorized Signature



**Laboratories, Inc.**

TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 05426  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/22/05 11:05

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
0508382-01	<b>COC Number:</b> --- <b>Project Number:</b> 05426 <b>Sampling Location:</b> MW-9 <b>Sampling Point:</b> MW-9 <b>Sampled By:</b> Daniel Livick of TRCI
0508382-02	<b>COC Number:</b> --- <b>Project Number:</b> 05426 <b>Sampling Location:</b> MW-8 <b>Sampling Point:</b> MW-8 <b>Sampled By:</b> Daniel Livick of TRCI
0508382-03	<b>COC Number:</b> --- <b>Project Number:</b> 05426 <b>Sampling Location:</b> MW-6 <b>Sampling Point:</b> MW-6 <b>Sampled By:</b> Daniel Livick of TRCI
0508382-04	<b>COC Number:</b> --- <b>Project Number:</b> 05426 <b>Sampling Location:</b> MW-7 <b>Sampling Point:</b> MW-7 <b>Sampled By:</b> Daniel Livick of TRCI
0508382-05	<b>COC Number:</b> --- <b>Project Number:</b> 05426 <b>Sampling Location:</b> MW-2 <b>Sampling Point:</b> MW-2 <b>Sampled By:</b> Daniel Livick of TRCI



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 05426  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/22/05 11:05

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
0508382-06	COC Number: --- Project Number: 05426 Sampling Location: OW Sampling Point: OW Sampled By: Daniel Livick of TRCI	Receive Date: 08/22/05 22:05 Sampling Date: 08/22/05 10:17 Sample Depth: --- Sample Matrix: Water	Delivery Work Order (LabW: Global ID: T0609700386 Matrix: W Samle QC Type (SACode): CS Cooler ID:	



**BC** Laboratories, Inc

TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 05426  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/22/05 11:05

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:		Client Sample Name:		Prep Date		Run Date/Time		Analyst		Instrument ID		QC Batch ID		MB Bias		Lab Quals	
Constituent	Result	Units	PQL	MDL	Method												
Benzene	ND	ug/L	0.50		EPA-8260	08/26/05	08/26/05 15:04	SDU	MS-V12	1	BOH1559		ND				
Ethylbenzene	0.63	ug/L	0.50		EPA-8260	08/26/05	08/26/05 15:04	SDU	MS-V12	1	BOH1559		ND				
Methyl t-butyl ether	13	ug/L	0.50		EPA-8260	08/26/05	08/26/05 15:04	SDU	MS-V12	1	BOH1559		ND				
Toluene	ND	ug/L	0.50		EPA-8260	08/26/05	08/26/05 15:04	SDU	MS-V12	1	BOH1559		ND				
Total Xylenes	ND	ug/L	1.0		EPA-8260	08/26/05	08/26/05 15:04	SDU	MS-V12	1	BOH1559		ND				
Total Purgeable Petroleum Hydrocarbons	850	ug/L	50		EPA-8260	08/26/05	08/26/05 15:04	SDU	MS-V12	1	BOH1559		ND				
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 15:04	SDU	MS-V12	1	BOH1559							
Toluene-d8 (Surrogate)	99.7	%	88 - 110 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 15:04	SDU	MS-V12	1	BOH1559							
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 15:04	SDU	MS-V12	1	BOH1559							



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 05426  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/22/05 11:05

## Total Petroleum Hydrocarbons

BCL Sample ID:		Client Sample Name:		Prep		QC		MB		Lab		
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	Instru-	Batch ID	Bias	Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	200		Luft/TPHd	08/26/05	08/29/05 22:47	VTR	GC-12A	1	BOH1467	ND
Tetracosane (Surrogate)	91.1	%	42 - 125 (LCL - UCL)		Luft/TPHd	08/26/05	08/29/05 22:47	VTR	GC-12A	1	BOH1467	



Laboratories, Inc.

TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 05426  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/22/05 11:05

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:		0508382-02		Client Sample Name:		05426, MW-8, MW-8, 8/22/2005		8:25:00AM, Daniel Livick				
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	08/26/05 08/26/05	15:26	SDU	MS-V12	1	BOH1559	ND
Ethylbenzene	ND	ug/L	0.50		EPA-8260	08/26/05 08/26/05	15:26	SDU	MS-V12	1	BOH1559	ND
Methyl t-butyl ether	60	ug/L	0.50		EPA-8260	08/26/05 08/26/05	15:26	SDU	MS-V12	1	BOH1559	ND
Toluene	ND	ug/L	0.50		EPA-8260	08/26/05 08/26/05	15:26	SDU	MS-V12	1	BOH1559	ND
Total Xylenes	ND	ug/L	1.0		EPA-8260	08/26/05 08/26/05	15:26	SDU	MS-V12	1	BOH1559	ND
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	08/26/05 08/26/05	15:26	SDU	MS-V12	1	BOH1559	ND
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114	(LCL - UCL)	EPA-8260	08/26/05 08/26/05	15:26	SDU	MS-V12	1	BOH1559	
Toluene-d8 (Surrogate)	98.9	%	88 - 110	(LCL - UCL)	EPA-8260	08/26/05 08/26/05	15:26	SDU	MS-V12	1	BOH1559	
4-Bromofluorobenzene (Surrogate)	97.7	%	86 - 115	(LCL - UCL)	EPA-8260	08/26/05 08/26/05	15:26	SDU	MS-V12	1	BOH1559	



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Project Number: [none]  
Project Manager: Anju Farfan

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## Total Petroleum Hydrocarbons

BCL Sample ID:		Client Sample Name:		Prep		Run		Instru-		QC		MB		Lab	
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals		
Diesel Range Organics (C12 - C24)	ND	ug/L	200		Luft/TPHd	08/26/05	08/29/05 23:07	VTR	GC-12A	1	BOH1467	ND			
Tetracosane (Surrogate)	93.3	%	42 - 125 (LCL - UCL)		Luft/TPHd	08/26/05	08/29/05 23:07	VTR	GC-12A	1	BOH1467				



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:		0508382-03		Client Sample Name:		05426, MW-6, MW-6, 8/22/2005		7:36:00AM, Daniel Livick				
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	08/26/05	08/26/05 15:49	SDU	MS-V12	1	BOH1559	ND
Ethylbenzene	ND	ug/L	0.50		EPA-8260	08/26/05	08/26/05 15:49	SDU	MS-V12	1	BOH1559	ND
Methyl t-butyl ether	22	ug/L	0.50		EPA-8260	08/26/05	08/26/05 15:49	SDU	MS-V12	1	BOH1559	ND
Toluene	ND	ug/L	0.50		EPA-8260	08/26/05	08/26/05 15:49	SDU	MS-V12	1	BOH1559	ND
Total Xylenes	ND	ug/L	1.0		EPA-8260	08/26/05	08/26/05 15:49	SDU	MS-V12	1	BOH1559	ND
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	08/26/05	08/26/05 15:49	SDU	MS-V12	1	BOH1559	ND
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 15:49	SDU	MS-V12	1	BOH1559		
Toluene-d8 (Surrogate)	98.4	%	88 - 110 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 15:49	SDU	MS-V12	1	BOH1559		
4-Bromofluorobenzene (Surrogate)	98.3	%	86 - 115 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 15:49	SDU	MS-V12	1	BOH1559		



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## Total Petroleum Hydrocarbons

BCL Sample ID:		Client Sample Name:		Prep		Run		Instru-		QC		MB		Lab	
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals		
Diesel Range Organics (C12 - C24)	ND	ug/L	200		Luf/TPhd	08/26/05	08/30/05 01:07	VTR	GC-12A	1	BOH1467	ND			
Tetracosane (Surrogate)	91.8	%	42 - 125 (LCL - UCL)	Luf/TPhd	08/26/05	08/30/05 01:07	VTR	GC-12A	1	BOH1467					



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0508382-04 Client Sample Name: 05426, MW-7, 8/22/2005 8:52:00AM, Daniel Livick

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrum-ent ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	36	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:12	SDU	MS-V12	1	BOH1559	ND	
Ethylbenzene	13	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:12	SDU	MS-V12	1	BOH1559	ND	
Methyl t-butyl ether	230	ug/L	5.0		EPA-8260	08/26/05	08/31/05 16:19	SDU	MS-V12	10	BOH1559	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:12	SDU	MS-V12	1	BOH1559	ND	
Total Xylenes	3.4	ug/L	1.0		EPA-8260	08/26/05	08/26/05 16:12	SDU	MS-V12	1	BOH1559	ND	
Total Purgeable Petroleum Hydrocarbons	3500	ug/L	500		EPA-8260	08/26/05	08/31/05 16:19	SDU	MS-V12	10	BOH1559	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	113	%	76 - 114 (LCL - UCL)	EPA-8260	08/26/05	08/31/05 16:19	SDU	MS-V12	10	BOH1559			
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 16:12	SDU	MS-V12	1	BOH1559			
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 16:12	SDU	MS-V12	1	BOH1559			
Toluene-d8 (Surrogate)	93.3	%	88 - 110 (LCL - UCL)	EPA-8260	08/26/05	08/31/05 16:19	SDU	MS-V12	10	BOH1559			
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 16:12	SDU	MS-V12	1	BOH1559			
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)	EPA-8260	08/26/05	08/31/05 16:19	SDU	MS-V12	10	BOH1559			



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## Total Petroleum Hydrocarbons

BCL Sample ID:		0508382-04	Client Sample Name:	05426, MW-7, 8/22/2005	8:52:00AM, Daniel Livick	Prep Run	Instru-	QC	MB	Lab			
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Diesel Range Organics (C12 - C24)	240	ug/L	200		Luft/TPHd	08/26/05	08/30/05 00:27	VTR	GC-12A	1	BOH1467	ND	A52
Tetracosane (Surrogate)	91.2	%	42 - 125 (LCL - UCL)	Luft/TPHd	08/26/05	08/30/05 00:27	VTR	GC-12A	1	BOH1467			



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:		0508382-05		Client Sample Name:		05426, MW-2, 8/22/2005		10:52:00AM, Daniel Livick				
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrum-ent ID	QC Batch ID	MB Bias	Lab Quals
Benzene	190	ug/L	5.0		EPA-8260	08/26/05	08/31/05 15:43	SDU	MS-V12	10	BOH1559	ND
Ethylbenzene	2.9	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:35	SDU	MS-V12	1	BOH1559	ND
Methyl t-butyl ether	23	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:35	SDU	MS-V12	1	BOH1559	ND
Toluene	2.5	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:35	SDU	MS-V12	1	BOH1559	ND
Total Xylenes	7.0	ug/L	1.0		EPA-8260	08/26/05	08/26/05 16:35	SDU	MS-V12	1	BOH1559	ND
Total Purgeable Petroleum Hydrocarbons	1400	ug/L	50		EPA-8260	08/26/05	08/26/05 16:35	SDU	MS-V12	1	BOH1559	ND
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114 (LCL - UCL)	EPA-8260	08/26/05	08/31/05 15:43	SDU	MS-V12	10	BOH1559		
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 16:35	SDU	MS-V12	1	BOH1559		
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 16:35	SDU	MS-V12	1	BOH1559		
Toluene-d8 (Surrogate)	98.2	%	88 - 110 (LCL - UCL)	EPA-8260	08/26/05	08/31/05 15:43	SDU	MS-V12	10	BOH1559		
4-Bromofluorobenzene (Surrogate)	107	%	86 - 115 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 16:35	SDU	MS-V12	1	BOH1559		
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)	EPA-8260	08/26/05	08/31/05 15:43	SDU	MS-V12	10	BOH1559		



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## Total Petroleum Hydrocarbons

BCL Sample ID:		Client Sample Name:		05426, MW-2, 8/22/2005 10:52:00AM, Daniel Livick									
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Run	MB Batch ID	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	200		Luft/TPHd	08/26/05	08/30/05 01:28	VTR	GC-12A	1	BOH1467	ND	
Tetracosane (Surrogate)	82.4	%	42 - 125 (LCL - UCL)	Luft/TPHd	08/26/05	08/30/05 01:28	VTR	GC-12A	1	BOH1467			



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0508382-06 Client Sample Name: 05426, OW, OW, 8/22/2005 10:17:00AM, Daniel Livick

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	6.4	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:57	SDU	MS-V12	1	BOH1559	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:57	SDU	MS-V12	1	BOH1559	ND	
Methyl t-butyl ether	16	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:57	SDU	MS-V12	1	BOH1559	ND	
Toluene	2.8	ug/L	0.50		EPA-8260	08/26/05	08/26/05 16:57	SDU	MS-V12	1	BOH1559	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	08/26/05	08/26/05 16:57	SDU	MS-V12	1	BOH1559	ND	
Total Purgeable Petroleum Hydrocarbons	340	ug/L	50		EPA-8260	08/26/05	08/26/05 16:57	SDU	MS-V12	1	BOH1559	ND	
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 16:57	SDU	MS-V12	1	BOH1559			
Toluene-d8 (Surrogate)	99.9	%	88 - 110 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 16:57	SDU	MS-V12	1	BOH1559			
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260	08/26/05	08/26/05 16:57	SDU	MS-V12	1	BOH1559			



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## Total Petroleum Hydrocarbons

BCL Sample ID:		Client Sample Name:		Prep Run		Instru-		QC		MB		Lab	
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	200	Luft/TPHd	08/26/05	08/30/05	00:47	VTR	GC-12A	1	BOH1467	ND	
Tetracosane (Surrogate)	66.7	%	42 - 125 (LCL - UCL)	Luft/TPHd	08/26/05	08/30/05	00:47	VTR	GC-12A	1	BOH1467		



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## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source	Result	Spike Added	Control Limits		
							Units	RPD	Percent Recovery
Benzene	BOH1559	BOH1559-MS1	Matrix Spike	ND	23.970	25.000	ug/L	4.19	95.9
		BOH1559-MSD1	Matrix Spike Duplicate	ND	25.040	25.000	ug/L	100	20
Toluene	BOH1559	BOH1559-MS1	Matrix Spike	ND	22.230	25.000	ug/L	88.9	70 - 130
		BOH1559-MSD1	Matrix Spike Duplicate	ND	23.320	25.000	ug/L	4.83	93.3
1,2-Dichloroethane-d4 (Surrogate)	BOH1559	BOH1559-MS1	Matrix Spike	ND	10.210	10.000	ug/L	102	76 - 114
		BOH1559-MSD1	Matrix Spike Duplicate	ND	10.270	10.000	ug/L	103	76 - 114
Toluene-d8 (Surrogate)	BOH1559	BOH1559-MS1	Matrix Spike	ND	9.8400	10.000	ug/L	98.4	88 - 110
		BOH1559-MSD1	Matrix Spike Duplicate	ND	9.7400	10.000	ug/L	97.4	88 - 110
4-Bromofluorobenzene (Surrogate)	BOH1559	BOH1559-MS1	Matrix Spike	ND	10.240	10.000	ug/L	102	86 - 115
		BOH1559-MSD1	Matrix Spike Duplicate	ND	10.350	10.000	ug/L	104	86 - 115



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## Total Petroleum Hydrocarbons

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source	Result	Spike Added	Units	RPD	Recovery	Control Limits	
										Percent	Percent
Diesel Range Organics (C12 - C24)	BOH1467	BOH1467-MS1	Matrix Spike	ND	2175.4	2500.0	ug/L		87.0	41 - 139	
		BOH1467-MSD1	Matrix Spike Duplicate	ND	2109.8	2500.0	ug/L	3.03	84.4	30	41 - 139
Tetracosane (Surrogate)	BOH1467	BOH1467-MS1	Matrix Spike	ND	102.07	100.00	ug/L		102	42 - 125	
		BOH1467-MSD1	Matrix Spike Duplicate	ND	94.765	100.00	ug/L		94.8	42 - 125	



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## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	Control Limits		
									Percent	RPD	RPD
Benzene	BOH1559	BOH1559-BS1	LCS	26.310	25,000	1.0	ug/L	105	70 - 130		
Toluene	BOH1559	BOH1559-BS1	LCS	24.170	25,000	1.0	ug/L	96.7	70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BOH1559	BOH1559-BS1	LCS	10.380	10,000	ug/L	104	76 - 114			
Toluene-d8 (Surrogate)	BOH1559	BOH1559-BS1	LCS	9.7500	10,000	ug/L	97.5	88 - 110			
4-Bromofluorobenzene (Surrogate)	BOH1559	BOH1559-BS1	LCS	10.300	10,000	ug/L	103	86 - 115			



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## Total Petroleum Hydrocarbons

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Control Limits			
								Percent Recovery	RPD	RPD	Lab Quals
Diesel Range Organics (C12 - C24)	BOH1467	BOH1467-BS1	LCS	2299.1	2500.0	200	ug/L	92.0	62 - 101	62 - 101	
Tetracosane (Surrogate)	BOH1467	BOH1467-BS1	LCS	105.79	100.00	ug/L	ug/L	106	42 - 125	42 - 125	



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## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BOH1559	BOH1559-BLK1	ND	ug/L	1.0	0.12	
Ethylbenzene	BOH1559	BOH1559-BLK1	ND	ug/L	1.0	0.13	
Methyl t-butyl ether	BOH1559	BOH1559-BLK1	ND	ug/L	2.0	0.15	
Toluene	BOH1559	BOH1559-BLK1	ND	ug/L	1.0	0.15	
Total Xylenes	BOH1559	BOH1559-BLK1	ND	ug/L	1.0	0.40	
Total Purgeable Petroleum Hydrocarbons	BOH1559	BOH1559-BLK1	ND	ug/L	50	23	
1,2-Dichloroethane-d4 (Surrogate)	BOH1559	BOH1559-BLK1	98.3	%	76 - 114	(LCL - UCL)	
Toluene-d8 (Surrogate)	BOH1559	BOH1559-BLK1	97.6	%	88 - 110	(LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BOH1559	BOH1559-BLK1	93.0	%	86 - 115	(LCL - UCL)	



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## Total Petroleum Hydrocarbons

### Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Diesel Range Organics (C12 - C24)	BOH1467	BOH1467-BLK1	ND	ug/L	200	23	
Tetracosane (Surrogate)	BOH1467	BOH1467-BLK1	115	%	42 - 125 (LCL - UCL)		



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#### Notes and Definitions

- |     |  |
|-----|--|
| J   | Estimated value                                      |
| A53 | Chromatogram not typical of gasoline.                |
| A52 | Chromatogram not typical of diesel.                  |
| A01 | PQL's and MDL's are raised due to sample dilution.   |
| ND  | Analyte NOT DETECTED at or above the reporting limit |
| dry | Sample results reported on a dry weight basis        |
| RPD | Relative Percent Difference                          |

Submission #: OS-8382

Project Code:

TB Batch #

## SHIPPING INFORMATION

Federal Express  UPS  Hand Delivery   
 BC Lab Field Service  Other  (Specify) \_\_\_\_\_

## SHIPPING CONTAINER

Ice Chest  None   
 Box  Other  (Specify) \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments:  
 Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received  
 YES  NO

Ice Chest ID R/16  
 Temperature: 3.9 °C  
 Thermometer ID: 98

Emissivity 1  
 Container Q+A

Date/Time 8/23/05 220  
 Analyst Init MGH

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A 3	A 3	A 3	A 3	A 3	A 3	A 3	A 3	A 3	A 3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M	B/C	B	B/C							
QT QA/QC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By:

NFI

Date/Time:

8/23/05 9:40

Submission #: OS-8382

Project Code:

TB Batch #

## SHIPPING INFORMATION

Federal Express  UPS  Hand Delivery   
 BC Lab Field Service  Other  (Specify) \_\_\_\_\_

## SHIPPING CONTAINER

Ice Chest  None   
 Box  Other  (Specify) \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments:  
 Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

~~COC Received~~  
 YES  NO

Ice Chest ID R/W  
 Temperature: 1.2 °C  
 Thermometer ID: 48

Emissivity 1  
 Container a+A

Date/Time 8/22/05 2205  
 Analyst Init MGM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL / GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	(	)	(	)	(	)	(	)	(	)
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 801SM	C									
QT QA/QC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE.										

Comments: \_\_\_\_\_

Sample Numbering Completed By: NR 1 Date/Time: 8/23/05 940



Laboratories, Inc.

## Chain of Custody Form

Report To:	TLC	Project #:	410Socci
Client:	Anju Farfan	Project Name:	Concord Phillips
Street Address:	21 Technology Dr	Project Code:	05420
City, State, Zip:	Elk Grove, Ca. 92618	Global ID#:	TC0609700386
Phone:	(408) 741-7410	Fax:	919-163-0111
		Daniel	
Email Address:		Submission #:	05-8382
Sample #:	2378TRC501	Description	
Date Sampled		Time Sampled	

8753

### Comments:

Comments:	
Analysis Requested	
TPH-D BOILS	✓
TPH-H 6182663	✓
TPH-X 1MTCB-B182663	✓
Soil Sludge	✓
Drunking Water	✓
Ground Water	✓
Waste Water	✓
Other	✓
# of Work Days	5
Turnaround	* Standard Turnaround = 15 work days
Are there any tests with holding times less than or equal to 48 hours?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Notes	
CHK BY <u>MA</u> DATE <u>1/22/04</u> SUB-OUT <u>E</u> DISTRIBUTION <u>MA</u> FILE # <u>100</u>	

<input checked="" type="checkbox"/> Same as above		Report Drinking Waters on State Form? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive:		Months _____		<input type="checkbox"/> QC <input type="checkbox"/> WIP <input type="checkbox"/> Raw Data		Special Reporting <input type="checkbox"/> Time	
Client: _____		Address: _____		1. Relinquished By <i>David Christopher</i>		Date <b>08/22/05</b> Time <b>1300</b>		1. Received By <i>Refrigerator</i>		Date <b>08/22/05</b> Time <b>1300</b>	
City: _____ State: _____ Zip: _____		Send Copy to State of CA? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Relinquished By <i>David Christopher</i>		Date <b>08/22/05</b> Time <b>1610</b>		2. Received By <i>Refrigerator</i>		Date <b>08/22/05</b> Time <b>1610</b>	
Attn: _____ PO#:				3. Relinquished By <i>David Christopher</i>		Date <b>08/22/05</b> Time <b>1910</b>		3. Received By <i>Refrigerator</i>		Date <b>08/22/05</b> Time <b>1910</b>	
<b>Billing</b>											

**BC Laboratories, Inc.** - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.1918 - Fax: 661.327.4911 - [www.bclabs.com](http://www.bclabs.com)

## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures - Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

### **Limitations**

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.